

## Omega OU1/OU3 LLC

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August 16, 2021

Mr. Chip Poalinelli  
Section Manager - California Site Cleanup Section I  
United States Environmental Protection Agency  
75 Hawthorne Street  
San Francisco, California 94105

Subject: Quarterly Performance Evaluation Report, Second Quarter 2021  
Full Scale On-Site Soil Remedy  
Omega Chemical Superfund Site, Operable Unit 1, Whittier, California

Dear Mr. Poalinelli:

Enclosed for your review is the second quarter 2021 Performance Evaluation Report for the Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site, Operable Unit1, Whittier, California.

Should you have any questions, regarding the above, please contact me.

Sincerely,

Omega OU1/OU3 LLC

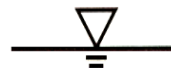


Edward Modiano  
Officer, Omega OU1/OU3 LLC



Jaime Dinello, PE  
Project Manager

cc: Don Indermill, DTSC



*de maximis, inc.*

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AUGUST 16, 2021

FULL SCALE ON-SITE SOIL REMEDY  
PERFORMANCE EVALUATION REPORT  
SECOND QUARTER 2021  
OMEGA CHEMICAL SUPERFUND SITE, OU-1

*Prepared for:*

Omega OU1/OU3 LLC

*Prepared by:*

*de maximis, inc.*

1322 Scott Street, Suite 104  
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# FULL-SCALE ON-SITE SOIL REMEDY OMEGA CHEMICAL SUPERFUND SITE, OU-1

## Quarterly Performance Evaluation Report Second Quarter 2021

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## **FULL-SCALE ON-SITE SOIL REMEDY**

### **OMEGA CHEMICAL SUPERFUND SITE, OU-1**

## **Quarterly Performance Evaluation Report**

### **Second Quarter 2021**

#### **1. INTRODUCTION**

This Quarterly Performance Evaluation Report (QPER) has been prepared on behalf of the Omega Chemical Site Potentially Responsible Parties Organized Group (OPOG) to comply with the October 6, 2010 Consent Decree No. 10-05051 (CD) between United States Environmental Protection Agency (USEPA) and OPOG (USEPA, 2010). The CD requires OPOG to design, construct, and operate a full-scale soil vapor extraction (SVE) and treatment system and perform associated monitoring to address vadose zone soil within Operable Unit 1 (OU-1). The CD Statement of Work satisfies the requirements of the 2008 OU-1 Record of Decision (ROD) (USEPA, 2008). Figure 1 shows the general location of OU-1, as well as the occupancy status of buildings within the operable unit. The locations of the OU-1 SVE system components, including the associated Vapor Extraction Wells (VEWs), the Dual Phase Extraction (DPE) wells, the treatment plant, and the associated Vapor Monitoring Probes (VMPs), are presented in Figure 2.

Remedial Action Objective (RAO) compliance monitoring includes the collection of soil gas and indoor air data within the OU-1 boundary. Current monitoring requirements are as follows:

- OU-1 SVE system operational data are collected to determine whether treated vapor emissions are substantively compliant with South Coast Air Quality Management District (SCAQMD) requirements as well as to conform to the requirements of the Draft OU-1 SVE Operations, Maintenance, and Monitoring (OM&M) Manual (CDM Smith, 2018a). OPOG responded to USEPA's comments on the Draft OM&M Manual and Sampling and Analysis Plan on June 18, 2019. USEPA provided concurrence to OPOG's responses on February 25, 2021. OPOG is currently finalizing the OM&M Manual and expects to submit the final version to USEPA later in 2021. These data are included in Section 2.

- Shallow soil gas data are collected semi-annually during the first and third quarters from specified VMPs in the shallow vadose zone (0 – 30 feet below ground surface [bgs]). However, the OU1 SVE system will be shut down during the third quarter of 2021 as part of the voluntary OU1 data collection program to evaluate remaining contaminant mass in OU1 as conditionally approved by USEPA on April 29, 2021 (USEPA, 2021). The annual VMP monitoring event usually conducted in the third quarter of each year will be superseded by scope of the voluntary OU1 data collection program and will be reported as a separate data submittal to EPA.
- Deep soil gas data are collected semi-annually during the first and third quarters from specified VMPs in the deep vadose zone (40 – 70 feet bgs). Thus, no deep soil gas data were collected this quarter. However, the OU1 SVE system will be shut down during the third quarter of 2021 as part of the voluntary OU1 data collection program to evaluate remaining contaminant mass in OU1 as conditionally approved by USEPA on April 29, 2021 (USEPA, 2021). The annual VMP monitoring event usually conducted in the third quarter of each year will be superseded by scope of the voluntary OU1 data collection program and will be reported as a separate data submittal to EPA.
- Indoor air data are collected semi-annually during the first and third quarters from within occupied OU-1 buildings. Thus, no indoor air data were collected this quarter.
- Soil concentration data in the shallow vadose zone (0 – 30 feet bgs) will be collected in 3Q2021 as part of the voluntary OU1 data collection program to evaluate remaining contaminant mass in OU1 as conditionally approved by USEPA on April 29 2021 (USEPA, 2021). This data will be reported as a separate data submittal to EPA.

## **2. OU-1 SVE SYSTEM OPERATIONS THIS QUARTER**

The OU-1 SVE System functioned this quarter with minimal issues or downtime. Alarm testing was conducted on June 11, 2021 and all alarms functioned as intended. Approximately 5.4 pounds of volatile organic compound (VOC) mass were removed from soil gas this quarter, compared to 5.2 pounds removed in the previous quarter. Figure 3 shows the cumulative mass removed since 2010.

## VACUUM BLOWER

As shown in Attachment A, Table A-1, the OU-1 SVE system functioned this quarter with an up time of approximately 99%.

## VAPOR EXTRACTION WELLS (VEWs) AND DUAL PHASE EXTRACTION (DPE) WELLS

All OU-1 SVE system VEWs and DPE wells were mechanically functional during this quarter. VEW and DPE well operational data, including flow rate, total VOC concentrations, as measured by PID readings and laboratory analyses (if analytical samples were collected), vacuum, temperature, relative humidity, and estimated mass removed per well during the quarter are presented in Attachment B, Table B-1. No VEW influent manifold valve adjustments were recommended this quarter.

## VAPOR MONITORING PROBES

The extraction wells provided enough vacuum influence to continue to remove mass and mitigate vapor migration. Per the EPA-approved soil gas memo (CDM Smith, 2018b), vacuum/pressure monitoring at specified VMPs shall be conducted quarterly, and analytical monitoring shall be conducted semi-annually (typically first and third quarters) except for select VMPs which are monitored for both vacuum and analytical concentrations annually. A summary of the VMP vacuum monitoring performed this quarter is included in Attachment C (Tables C-1/Figure C-1 and Table C-2/Figure C-2 for shallow and deep VMPs respectively). All VMPs that did not exhibit a vacuum of at least 0.1 inches of water column were located within the design radius of influence (ROI) of a VEW connected to the offline AOC system (VE-21S, VE-39S, VE-31S, VE-6D, and VE-10D), were located at the edge of or beyond the design ROI of an operational VEW or DPE well (DPE-5), or were within the design ROI of a VEW where low VOC concentrations has led to EPA-approved operational cycling and reduced flow (VE-14S and VE-15S).

Semi-annual VMP analytical monitoring was not conducted this quarter. Figures 4 and 5 are placeholders for presentations of concentrations of PCE and TCE measured during a quarter.

Attachment D serves as a placeholder for monitoring data collected from other VMPs not included in the EPA-approved soil gas memo (note that no VMPs of this type were sampled this quarter).

## TREATED VAPOR DISCHARGE

The OU-1 SVE system operated in accordance with treated vapor discharge limits and Vapor-Phase Granular Activated Carbon (VGAC) operational requirements. The VGAC changeout criteria were not triggered during this quarter (Attachment A). The criteria are currently based on the existing Health Risk Assessment (HRA, CDM Smith, 2015). The most recent carbon changeouts of the lead and lag vessels were completed on March 15, 2019 and December 11, 2020, respectively.

Table 1 shows the VOC concentrations in the VGAC influent, midpoint, and effluent samples and effluent discharge limits. As discussed in the GAC assessments included in Attachment A, the OU-1 SVE system did not meet the conditions for a GAC changeout presented in the existing HRA this quarter and is therefore substantively compliant. OPOG will continue tracking these trends. Figure 6 shows VGAC influent concentrations for PCE and TCE since 2010. Attachment A, Table A-1 shows the flow rate, temperature, and total VOC concentrations, as measured using a PID. Figure A-1 shows selected parameters over time.

Operational field forms (for all monitoring discussed in this section) are provided in Attachment E. Analytical laboratory reports are provided in Attachment F. A summary of the results of the data quality assessment and data validation reports are provided in Attachment G.

### **3. SOIL GAS COMPLIANCE MONITORING**

Per the EPA-approved soil gas memo, semi-annual VMP analytical monitoring was not conducted this quarter.

### **4. INDOOR AIR COMPLIANCE MONITORING**

The occupancy status and current monitoring schedule for each building is summarized in Table 2. Indoor air sampling is generally only conducted in buildings that are occupied. Occupancy status is verified each quarter.

As discussed above, indoor air compliance monitoring is conducted during the Annual (January) and Semi-Annual (July) monitoring events. Thus, no routine indoor air monitoring was conducted during the second quarter. Figure 7, not included this quarter, is a placeholder to present indoor air monitoring results for PCE and TCE. Attachment H is a placeholder for a

summary of indoor air monitoring results.

## **5. SUBMITTALS DURING THE QUARTER**

The following submittals were provided to USEPA this quarter as part of the OU-1 Full Scale On-site Soil Remedy:

- Full Scale On-site Soil Remedy QPER, First Quarter 2020 (May 17, 2021)

## **6. PLANNED ACTIVITIES**

Planned operational and monitoring activities scheduled for the next quarter include the following:

- Shutdown of the OU-1 SVE System as part of the OU-1 Additional Data Collection Program (shutdown to occur in July 2021)
- Monthly vacuum, flow, temperature and PID monitoring at VEWs and DPE wells (during OU-1 SVE operations)
- Monthly assessment of VGAC effectiveness and need for VGAC changeout (during OU-1 SVE operations)
- July Semi-Annual IAQ monitoring event per the 2020 Indoor Air Quality Sampling Plan (de maximis, 2019)
- Quarterly performance reporting

## **7. PROBLEMS OR ISSUES OF CONCERN**

None.



## 8. REFERENCES

- CDM Smith. (2015). *Memorandum: Treatment of Effluent from Groundwater Treatment System and Soil Vapor Extraction, Omega Chemical Superfund Site, Whittier, California 90602*, February 26
- CDM Smith. (2018a). *DRAFT – Operable Unit 1 Soil Vapor Extraction System Operations, Maintenance, and Monitoring Manual*, December 21.
- CDM Smith. (2018b). *Revised 2018 Operable Unit 1 (OU-1) On-site Soil Remedy Soil Gas Monitoring*, August 27
- de maximis, inc. (2019). *2020 Indoor Air Quality Sampling Plan, Omega Chemical Superfund Site*. November 26
- USEPA. (2008). *Record of Decision for OU-1 Soils*.
- USEPA. (2010). *Consent Decree Docket No. 10-05051*, October 6
- USEPA. (2021). *Confirmation of Path Forward on OPOG's Voluntary Data Collection Work on OU1*, April 29

# TABLES

**Table 1**  
**Vapor Phase GAC Analytical Data Demonstrating Substantive Compliance With SCAQMD Regulations**  
**OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site**  
**Second Quarter 2021**

| SCAQMD Chemical-Specific Effluent Limit <sup>1</sup> |             |       | 2,208      | 198           | 84            | 15            | 14            | 48            | 1,082        | 65            |
|--|-------------|-------|------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|
| Sample Location                                      | Sample Date | Units | PCE        | TCE           | VC            | 11DCA         | 12DCA         | CF            | MeC          | BEN           |
| SVE1 GAC INFLUENT                                    | 4/16/2021   | ppbv  | 57         | 3.6           | 1.0 U         | 1.0 U         | 1.0 U         | 1.0 U         | 10 U         | 1.0 U         |
| SVE1 GAC MIDPOINT                                    | 4/16/2021   | ppbv  | 4.4        | 1.2           | 1.0 U         | 1.0 U         | 1.0 U         | 1.0 U         | 10 U         | 1.0 U         |
| <b>SVE1 GAC EFFLUENT<sup>2</sup></b>                 | 4/16/2021   | ppbv  | <b>37</b>  | <b>1.2</b>    | <b>1.0 U</b>  | <b>1.0 U</b>  | <b>1.0 U</b>  | <b>1.0 U</b>  | <b>10 U</b>  | <b>1.2</b>    |
| SVE1 GAC INFLUENT                                    | 5/7/2021    | ppbv  | 57         | 3.8           | 1.0 U         | 1.0 U         | 1.0 U         | 1.0 U         | 10 U         | 1.0 U         |
| SVE1 GAC MIDPOINT                                    | 5/7/2021    | ppbv  | 3.8        | 1.0 U         | 1.0 U         | 1.0 U         | 1.0 U         | 1.0 U         | 10 U         | 1.0 U         |
| <b>SVE1 GAC EFFLUENT<sup>2</sup></b>                 | 5/7/2021    | ppbv  | <b>33</b>  | <b>1.3</b>    | <b>1.0 U</b>  | <b>1.0 U</b>  | <b>1.0 U</b>  | <b>1.0 U</b>  | <b>10 U</b>  | <b>1.0 U</b>  |
| SVE1 GAC INFLUENT                                    | 6/4/2021    | ppbv  | 58         | 3.6           | 1.0 U         | 1.0 U         | 1.0 U         | 1.0 U         | 10 U         | 1.0 U         |
| SVE1 GAC MIDPOINT                                    | 6/4/2021    | ppbv  | 2.0        | 1.2           | 1.0 U         | 1.0 U         | 1.0 U         | 1.0 U         | 10 U         | 1.0 U         |
| <b>SVE1 GAC EFFLUENT<sup>2</sup></b>                 | 6/4/2021    | ppbv  | <b>17</b>  | <b>0.97 U</b> | <b>0.97 U</b> | <b>0.97 U</b> | <b>0.97 U</b> | <b>0.97 U</b> | <b>9.7 U</b> | <b>0.97 U</b> |
| <b>Compliance with Effluent Limits?</b>              |             |       | <b>YES</b> | <b>YES</b>    | <b>YES</b>    | <b>YES</b>    | <b>YES</b>    | <b>YES</b>    | <b>YES</b>   | <b>YES</b>    |

Notes:

1. SCAQMD effluent limits are derived from the Health Risk Assessment (CDM Smith, 2015).

2. Bold text indicates vapor effluent results from the VGAC effluent required to meet SCAQMD HRA chemical specific limits shown in the table.

OU-1 SVE GAC Influent = VOC-laden vapor sample collected at the influent to the lead VGAC vessel.

OU-1 SVE GAC Midpoint = Partially treated vapor sample collected between the lead and lag VGAC vessels.

OU-1 SVE GAC Effluent = Fully treated vapor sample collected at the effluent from the lag (polishing) VGAC vessel.

U - Not detected above reporting limit listed

PCE - Tetrachloroethene      12DCA - 1,2-Dichloroethane

TCE - Trichloroethene      CF - Chloroform

VC - Vinyl Chloride      MeC - Methylene Chloride

11DCA - 1,1-Dichloroethane      BEN - Benzene

**Table 2**  
**Status of Indoor Air Sampling at Buildings Wholly or Partially within the OU-1 Phase 1a Boundary**  
**OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site**  
**Second Quarter 2021**

| Building   | Location Designation        | Building Occupancy | Vacancy Status Verification | Current Monitoring Status | Date Last Sampled <sup>1</sup> | Next Planned Sampling Date | Sampling Rationale   |
|--|-----------------------------|--------------------|-----------------------------|---------------------------|--------------------------------|----------------------------|--|
| Sunland Enterprises<br>(Former Omega Administration) | Within OU-1 Boundary        | Occupied           | Verified in person 2Q2021   | Annual                    | 1/15/2021                      | January 2022               | <ul style="list-style-type: none"> <li>- Sampled as part of Remedial Investigation</li> <li>- Building unoccupied between 2005 and 2018. The building is currently leased to Sunland Enterprises, Division of E&amp;A Car Wash Systems</li> <li>- EPA has not requested indoor air sampling under the 2009 AOC</li> <li>- Under influence of soil vapor extraction since 2011</li> <li>- Building was incorporated into the annual monitoring program proposed in the 2020 Indoor Air Quality Sampling Plan (submitted to EPA on November 26, 2019)</li> </ul> |
| Bishop   | Partly within OU-1 Boundary | Occupied           | Verified in person 2Q2021   | Semi-Annual               | 1/14/2021                      | July 2021                  | <ul style="list-style-type: none"> <li>- Required indoor air sampling under the 2009 AOC</li> <li>- Under influence of soil vapor extraction since 2010</li> <li>- Reduced monitoring frequency from quarterly to semi-annual (approved by EPA in letter to OPOG on November 28, 2018).</li> </ul>   |
| Madsen Roofing                                       | Within OU-1 Boundary        | Partially Occupied | Verified in person 2Q2021   | Annual                    | 1/14/2021                      | January 2022               | <ul style="list-style-type: none"> <li>- Required indoor air sampling under the 2009 AOC</li> <li>- Under influence of soil vapor extraction since 2010</li> <li>- Reduced monitoring frequency from semi-annual to annual (approved by EPA in letter to OPOG on November 28, 2018).</li> </ul>  |
| Star City Auto Body                                  | Within OU-1 Boundary        | Occupied           | Verified in person 2Q2021   | Annual                    | 1/14/2021                      | January 2022               | <ul style="list-style-type: none"> <li>- Required indoor air sampling under the 2009 AOC</li> <li>- Under influence of soil vapor extraction since 2010</li> <li>- Reduced monitoring frequency from semi-annual to annual (approved by EPA in letter to OPOG on November 28, 2018).</li> </ul>  |
| Terra Pave   | Within OU-1 Boundary        | Partially Occupied | Verified in person 2Q2021   | Semi-Annual               | 1/14/2021                      | July 2021                  | <ul style="list-style-type: none"> <li>- Required indoor air sampling under the 2009 AOC</li> <li>- Under influence of soil vapor extraction since 2010</li> <li>- Reduced monitoring frequency from quarterly to semi-annual (approved by EPA in letter to OPOG on November 28, 2018).</li> </ul>   |

**Notes:**

1. The dates reflected in this column exclude sampling which may have occurred beyond this reporting period.

# FIGURES



- OU-1 Boundary
- Building Currently Commercially/Industrially Occupied
- Building Currently Vacant
- Former Omega Chemical Property Boundary



Reviewed By: MH  
 Drawn By: LEM  
 Date: 1/22/2019

**Figure 1**  
**OU-1 Location Map**  
**OU-1 Full Scale On-Site Soil Remedy,**  
**Omega Chemical Superfund Site**  
**12504/12512 East Whittier Boulevard**  
**Whittier, California**



- |   |   |
|---|---|
| ▲ Shallow Vapor Extraction Well (<30ft bgs)             | ○ Vapor Monitoring Probe                  |
| ● Deep Vapor Extraction Well (>30ft bgs)                | ▨ OU-1 SVE Treatment Plant                |
| ■ Dual Phase Extraction Well                            | □ OU-1 Boundary                           |
| ■ Building Currently Commercially/Industrially Occupied | ■ Former Omega Chemical Property Boundary |
| □ Building Currently Vacant                             | ↔ Conveyance Piping                       |

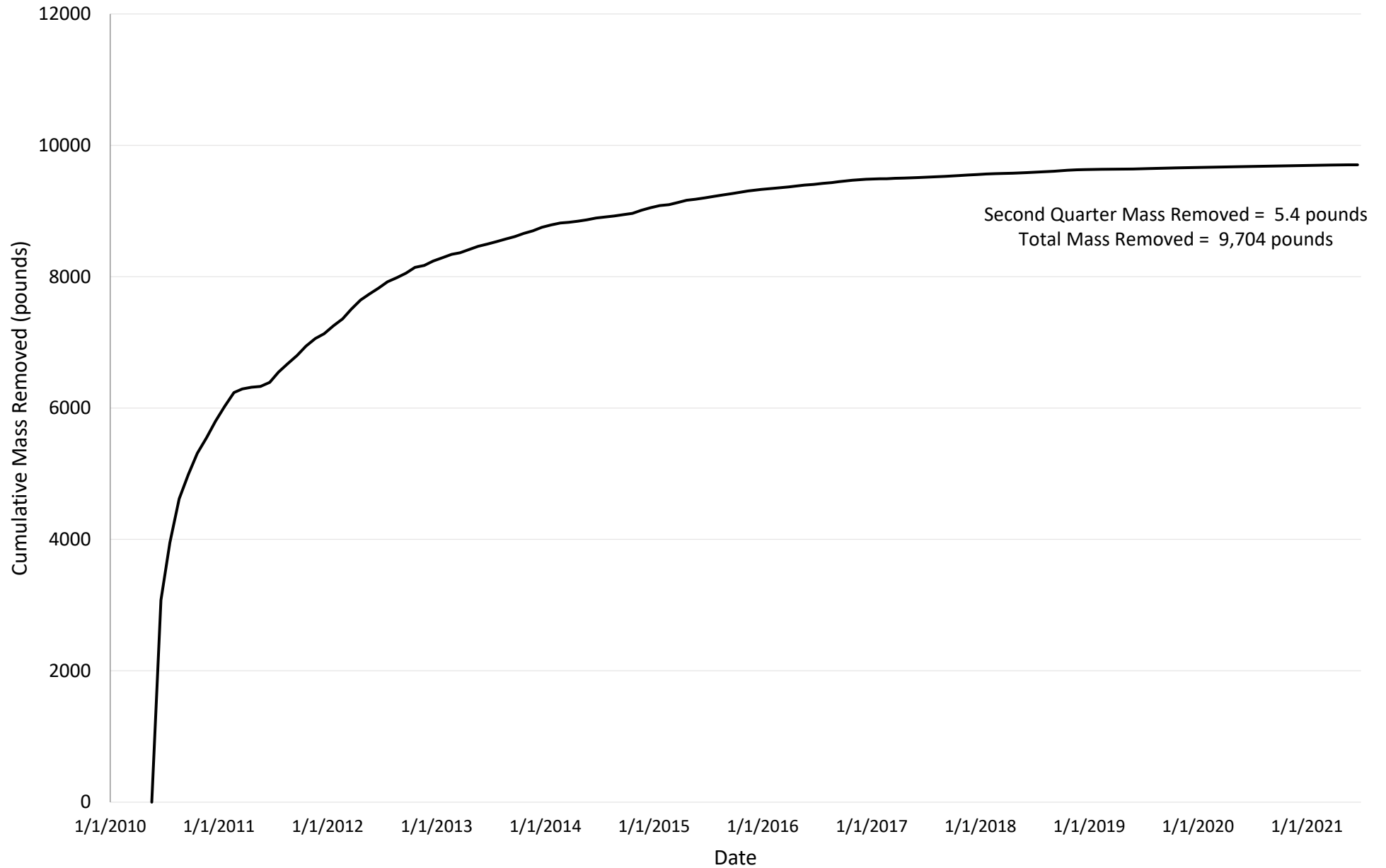
Not all conveyance piping shown. Locations are approximate.



Reviewed By: LM  
Drawn By: KM  
Date: 2/12/2019

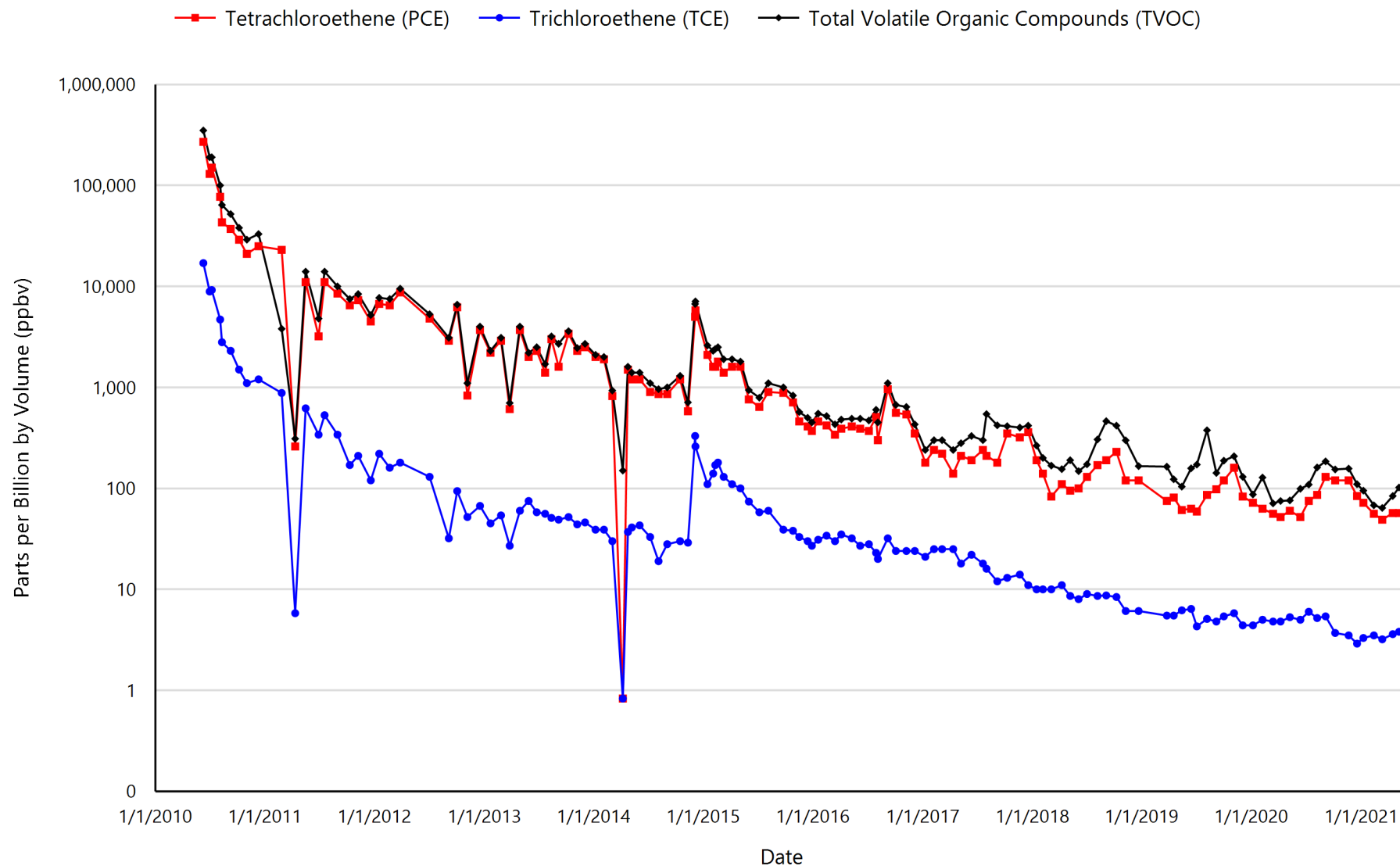
**Figure 2**  
**OU-1 SVE System Location Map**  
**OU-1 Full Scale On-Site Soil Remedy,**  
**Omega Chemical Superfund Site**

**Figure 3**  
**OU-1 SVE System Cumulative Mass Removed**  
**OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site**  
**Second Quarter 2021**





**Figure 6**  
**Vapor Phase GAC Influent Concentrations**  
**OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site**  
**Second Quarter 2021**



# **ATTACHMENT A**

## **OU-1 SVE System Operational Data**

# Attachment A, Table A-1

## OU-1 SVE System Operational Data Demonstrating Substantive Compliance With SCAQMD Operational Limits OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site Second Quarter 2021

| SCAQMD Limit <sup>4</sup>           |                        |                          |                                      | 1280                            | 145                                  |                                      |                                      |                                      | 15                                   |                                       |  |                                   |
|-------------------------------------|------------------------|--------------------------|--------------------------------------|---------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|--|-----------------------------------|
| HRA Changeout Criteria              |                        |                          |                                      |                                 |                                      |                                      |                                      | 50 <sup>3</sup>                      |                                      | 90 <sup>3</sup>                       |  |                                   |
| Date                                | Interval Run Time (hr) | Up Time <sup>5</sup> (%) | Influent Vapor Relative Humidity (%) | Influent Vapor Flow Rate (SCFM) | VGAC Influent Vapor Temperature (°F) | VGAC Effluent Vapor Temperature (°F) | VGAC Influent PID Measurement (ppmv) | VGAC Midpoint PID Measurement (ppmv) | VGAC Effluent PID Measurement (ppmv) | Lead VGAC Efficiency <sup>1</sup> (%) | Overall VGAC Efficiency <sup>2</sup> (%) | Mass Removed (lbs, monthly total) |
| 4/2/2021                            | 96                     | 100                      | 77.1                                 | 1054                            | 106.3                                | 91.2                                 | 2.0                                  | 0.2                                  | 0.1                                  | ---                                   | ---                                      | 2.1                               |
| 4/9/2021                            | 161                    | 96                       | 73.1                                 | 1086                            | 106.3                                | 94.5                                 | 1.3                                  | 0.5                                  | 0.3                                  | ---                                   | ---                                      |                                   |
| 4/16/2021                           | 166                    | 99                       | 76.3                                 | 1090                            | 105.3                                | 85.0                                 | 1.1                                  | 0.0                                  | 0.0                                  | ---                                   | ---                                      |                                   |
| 4/23/2021                           | 168                    | 100                      | 78.1                                 | 1072                            | 104.8                                | 85.7                                 | 1.2                                  | 0.3                                  | 0.3                                  | ---                                   | ---                                      |                                   |
| 4/30/2021                           | 169                    | 100                      | --                                   | 963                             | 109.4                                | 98.0                                 | 1.5                                  | 0.7                                  | 0.6                                  | ---                                   | ---                                      |                                   |
| 5/7/2021                            | 168                    | 100                      | --                                   | 1073                            | 102.9                                | 87.1                                 | 1.1                                  | 0.3                                  | 0.2                                  | ---                                   | ---                                      | 1.6                               |
| 5/14/2021                           | 167                    | 99                       | --                                   | 1087                            | 102.5                                | 85.7                                 | 2.7                                  | 0.3                                  | 0.1                                  | ---                                   | ---                                      |                                   |
| 5/21/2021                           | 168                    | 100                      | --                                   | 1093                            | 107.2                                | 87.1                                 | 2.6                                  | 0.2                                  | 0.0                                  | ---                                   | ---                                      |                                   |
| 5/28/2021                           | 170                    | 100                      | 57.3                                 | 1069                            | 105.7                                | 94.9                                 | 2.0                                  | 0.9                                  | 0.7                                  | ---                                   | ---                                      |                                   |
| 6/4/2021                            | 167                    | 99                       | 69.7                                 | 1070                            | 106.7                                | 91.8                                 | 1.6                                  | 0.5                                  | 0.3                                  | ---                                   | ---                                      | 1.7                               |
| 6/11/2021                           | 170                    | 100                      | 62.4                                 | 1076                            | 107.9                                | 95.6                                 | 3.6                                  | 1.6                                  | 1.1                                  | ---                                   | ---                                      |                                   |
| 6/17/2021                           | 143                    | 99                       | 67.6                                 | 1074                            | 105.3                                | 93.8                                 | 0.5                                  | 0.1                                  | 0.0                                  | ---                                   | ---                                      |                                   |
| 6/25/2021                           | 190                    | 99                       | 67.1                                 | 1082                            | 107.4                                | 92.8                                 | 2.1                                  | 0.7                                  | 0.3                                  | ---                                   | ---                                      |                                   |
| 2nd Qtr 2021 Average                |                        | 99                       | 69.9                                 | 1068                            | 106.0                                | 91.0                                 | 1.8                                  | 0.5                                  | 0.3                                  | ---                                   | ---                                      | 1.8                               |
| Total Mass Removed 2nd Qtr 2021     |                        |                          |                                      |                                 |                                      |                                      |                                      |                                      |                                      |                                       |  | 5.4                               |
| Compliance with SCAQMD Limits?      |                        |                          |                                      | YES                             | YES                                  |                                      |                                      |                                      | YES                                  |                                       |  |                                   |
| Carbon Changeout Required This Qtr? |                        |                          |                                      |                                 |                                      |                                      |                                      | NO                                   |                                      | NO                                    |  |                                   |

### Notes:

\*F = degrees Fahrenheit

PID = photoionization detector

SCFM = Standard Cubic Feet per Minute

Qtr = quarter

SCAQMD = South Coast Air Quality Management District

1. Lead VGAC efficiency is calculated by the PID readings between the influent and midpoint. The lead VGAC efficiency is only calculated if the influent and midpoint PID readings exceed 50 ppmv as hexane, see Note 3.

2. Overall VGAC efficiency is calculated by the PID readings between the influent and effluent. The overall VGAC efficiency is only calculated if the influent and effluent PID readings exceed 50 ppmv as hexane, see Note 3.

3. Carbon changeouts are required when the efficiency across the lead VGAC vessel drops below 90% AND the midpoint concentration exceeds 50 ppmv as hexane, by PID during the same sampling event.

4. Limits are derived from the Health Risk Assessment (CDM Smith, 2015a).

5. Up Time is calculated as the percentage of time the system is operating between the date listed and the previous measurement date.

VGAC = vapor phase granular activated carbon

ppmv = parts per million by volume as hexane

Hr = Hour

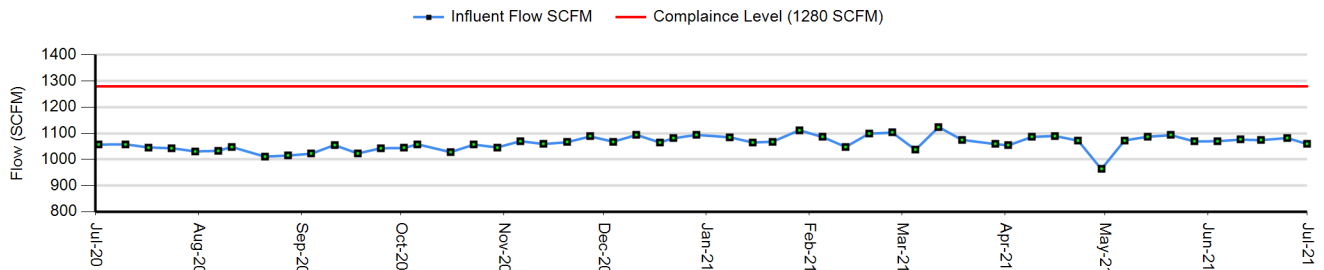
lbs = pounds

Attachment A, Figure A-1  
OU-1 SVE System Operational Data (Rolling One Year)

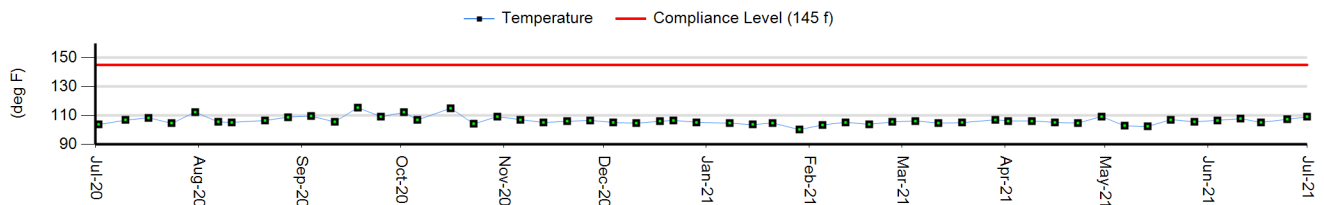
% Efficiency (PID) Across GAC Primary



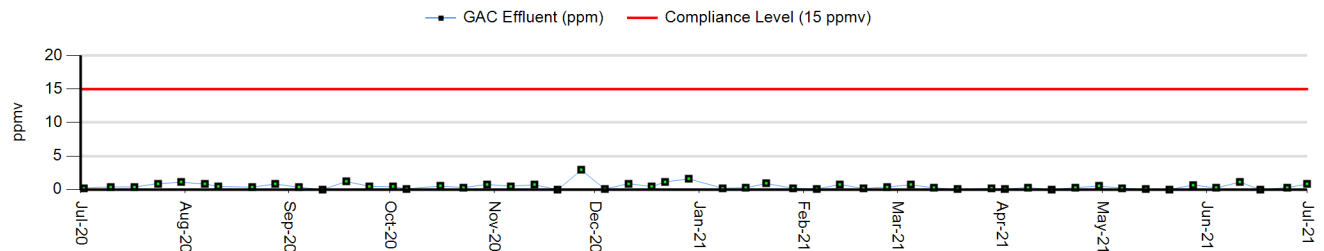
SVE INF Flow (SCFM)



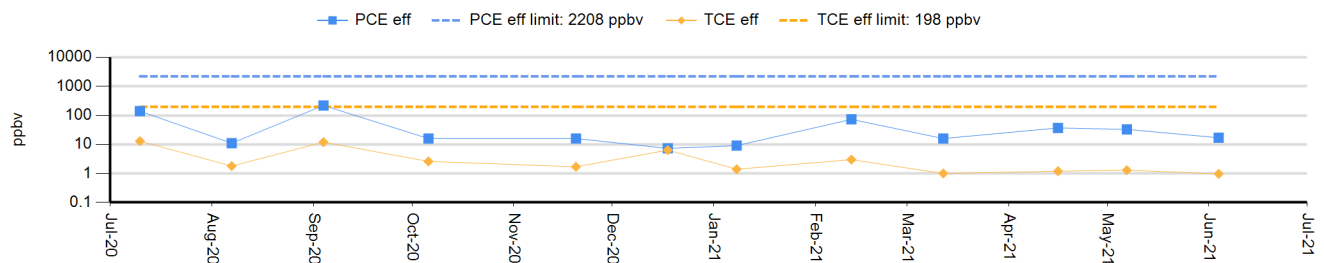
SVE GAC INF Temperature (deg F)



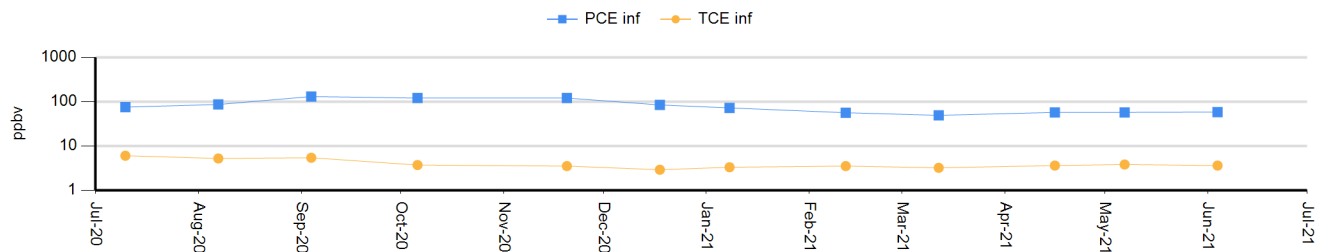
SVE GAC EFF PID (ppm)



SVE GAC EFF (analytical)



SVE GAC INF (analytical)



## Kyle King

**From:** Day, Maria L. <dayml@cdmsmith.com>  
**Sent:** Thursday, July 29, 2021 3:33 PM  
**To:** Kyle King; clucas@ddmsinc.com  
**Cc:** Reed, Alesandra F.; kmcgill@ddmsinc.com  
**Subject:** OMEGA OU-1 SVE April 2021 GAC Evaluation  
**Attachments:** Omega OU-1 SVE GAC Changeout Assessment\_April 2021.xlsx

**\*\* WARNING EXTERNAL SENDER \*\***

Team,

We evaluated the performance of the GAC used by the OU-1 SVE system for the month of April 2021, relative to the conditions listed in the Health Risk Assessment (HRA) (CDM Smith 2015). These conditions must be met to remain in substantive compliance with SCAQMD requirements.

During the month of April, the OU-1 SVE system met the conditions presented in the HRA and is therefore substantively compliant:

- None of the toxic air contaminants listed in Condition #14 of the HRA were detected in the effluent above their respective effluent limit.
- The OU-1 SVE system did not meet the two criteria for replacement of the lead GAC vessel (listed under Condition #12 of the HRA), and therefore no GAC replacement was required.
- No other carcinogenic air contaminants beyond those listed in Condition #14 of the HRA were detected in effluent above 10 ppbv, and therefore per Condition #16, no toxic risk assessment was required.

We also evaluated all the analytical and PID data and, based on our professional judgement, we do not recommend a voluntary changeout of the lead vessel GAC at this time.

| OU-1 SVE GAC Assessment – Based on Samples Collected April 16, 2021 |                      |          |          |                    |                       |
|---|----------------------|----------|----------|--------------------|-----------------------|
| Parameter   | Concentration (ppbv) |          |          |                    | Below 2015 HRA Limit? |
|   | Influent             | Midpoint | Effluent | HRA Effluent Limit |                       |
| 1,1,1-Trichloroethane (TCA)   | 2.1                  | 4.3      | ND       | 34                 | Yes                   |
| 1,1-Dichloroethane  | ND                   | ND       | ND       | 15                 | Yes                   |
| 1,1-Dichloroethene  | 1.4                  | 1.6      | 1.1      | 1,243              | Yes                   |
| 1,2-Dichloroethane  | ND                   | ND       | ND       | 14                 | Yes                   |
| Benzene   | ND                   | ND       | 1.2      | 65                 | Yes                   |
| Carbon disulfide  | ND                   | ND       | ND       | 1,007              | Yes                   |
| Chloroform  | ND                   | ND       | ND       | 48                 | Yes                   |
| Freon 11  | 1.2                  | 1.5      | 1.8      | 1,801              | Yes                   |
| Freon 113   | 4                    | 7.6      | 1.8      | 9,799              | Yes                   |
| Freon 12  | ND                   | ND       | ND       | 775                | Yes                   |
| Isopropyl Alcohol (Isopropanol)                                     | ND                   | 5.2      | ND       | 60                 | Yes                   |
| Methyl ethyl ketone   | 12                   | 15       | 43       | 75                 | Yes                   |
| Methylene chloride  | ND                   | ND       | ND       | 1,082              | Yes                   |

|                                |     |     |     |        |     |
|--------------------------------|-----|-----|-----|--------|-----|
| o-Xylene                       | ND  | ND  | ND  | 21     | Yes |
| Tetrachloroethene (PCE)        | 57  | 4.4 | 37  | 2,208  | Yes |
| TNMOC ref. to Heptane (MW=100) | 350 | 130 | 820 | 17,405 | Yes |
| Toluene                        | 2.6 | ND  | ND  | 47     | Yes |
| Trichloroethene (TCE)          | 3.6 | 1.2 | 1.2 | 198    | Yes |
| Vinyl chloride                 | ND  | ND  | ND  | 84     | Yes |

Please let us know if there are any questions or if you would like to discuss the data further. Have a great day.

**Maria Day**

CDM Smith

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## Kyle King

**From:** Day, Maria L. <dayml@cdmsmith.com>  
**Sent:** Thursday, July 29, 2021 3:35 PM  
**To:** Kyle King; clucas@ddmsinc.com  
**Cc:** kmcgill@ddmsinc.com; Reed, Alesandra F.  
**Subject:** OMEGA OU-1 SVE May 2021 GAC Summary  
**Attachments:** Omega OU-1 SVE GAC Changeout Assessment\_May 2021.xlsx

**\*\* WARNING EXTERNAL SENDER \*\***

Team,

We evaluated the performance of the GAC used by the OU-1 SVE system for the month of May 2021, relative to the conditions listed in the Health Risk Assessment (HRA) (CDM Smith 2015). These conditions must be met to remain in substantive compliance with SCAQMD requirements.

During the month of May, the OU-1 SVE system met the conditions presented in the HRA and is therefore substantively compliant:

- None of the toxic air contaminants listed in Condition #14 of the HRA were detected in the effluent above their respective effluent limit.
- The OU-1 SVE system did not meet the two criteria for replacement of the lead GAC vessel (listed under Condition #12 of the HRA), and therefore no GAC replacement was required.
- No other carcinogenic air contaminants beyond those listed in Condition #14 of the HRA were detected in effluent above 10 ppbv, and therefore per Condition #16, no toxic risk assessment was required.

We also evaluated all the analytical and PID data and, based on our professional judgement, we do not recommend a voluntary changeout of the lead vessel GAC at this time.

| OU-1 SVE GAC Assessment – Based on Samples Collected May 7, 2021 |                      |          |          |                    |                       |
|--|----------------------|----------|----------|--------------------|-----------------------|
| Parameter  | Concentration (ppbv) |          |          |                    | Below 2015 HRA Limit? |
|  | Influent             | Midpoint | Effluent | HRA Effluent Limit |                       |
| 1,1,1-Trichloroethane (TCA)                                      | 2.3                  | 3.8      | ND       | 34                 | Yes                   |
| 1,1-Dichloroethane   | ND                   | ND       | ND       | 15                 | Yes                   |
| 1,1-Dichloroethene   | 1.8                  | 1.7      | 1.2      | 1,243              | Yes                   |
| 1,2-Dichloroethane   | ND                   | ND       | ND       | 14                 | Yes                   |
| Benzene  | ND                   | ND       | ND       | 65                 | Yes                   |
| Carbon disulfide   | ND                   | ND       | ND       | 1,007              | Yes                   |
| Chloroform   | ND                   | ND       | ND       | 48                 | Yes                   |
| Freon 11   | 1.2                  | 1.3      | 1.3      | 1,801              | Yes                   |
| Freon 113  | 4.9                  | 6.6      | ND       | 9,799              | Yes                   |
| Freon 12   | ND                   | ND       | ND       | 775                | Yes                   |
| Isopropyl Alcohol (Isopropanol)                                  | 11                   | ND       | ND       | 60                 | Yes                   |
| Methyl ethyl ketone  | 15                   | 7        | 19       | 75                 | Yes                   |
| Methylene chloride   | ND                   | ND       | ND       | 1,082              | Yes                   |

|                                |     |     |     |        |     |
|--------------------------------|-----|-----|-----|--------|-----|
| o-Xylene                       | ND  | ND  | ND  | 21     | Yes |
| Tetrachloroethene (PCE)        | 57  | 3.8 | 33  | 2,208  | Yes |
| TNMOC ref. to Heptane (MW=100) | 270 | ND  | 980 | 17,405 | Yes |
| Toluene                        | ND  | ND  | ND  | 47     | Yes |
| Trichloroethene (TCE)          | 3.8 | ND  | 1.3 | 198    | Yes |
| Vinyl chloride                 | ND  | ND  | ND  | 84     | Yes |

Please let us know if there are any questions or if you would like to discuss the data further. Have a great day.

**Maria Day**

CDM Smith

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## Kyle King

**From:** Day, Maria L. <dayml@cdmsmith.com>  
**Sent:** Thursday, July 29, 2021 3:37 PM  
**To:** Kyle King; clucas@ddmsinc.com  
**Cc:** Reed, Alesandra F.; kmcgill@ddmsinc.com  
**Subject:** OMEGA OU-1 SVE June 2021 GAC Summary  
**Attachments:** Omega OU-1 SVE GAC Changeout Assessment\_June 2021.xlsx

**\*\* WARNING EXTERNAL SENDER \*\***

Team,

We evaluated the performance of the GAC used by the OU-1 SVE system for the month of June 2021, relative to the conditions listed in the Health Risk Assessment (HRA) (CDM Smith 2015). These conditions must be met to remain in substantive compliance with SCAQMD requirements.

During the month of June, the OU-1 SVE system met the conditions presented in the HRA and is therefore substantively compliant:

- None of the toxic air contaminants listed in Condition #14 of the HRA were detected in the effluent above their respective effluent limit.
- The OU-1 SVE system did not meet the two criteria for replacement of the lead GAC vessel (listed under Condition #12 of the HRA), and therefore no GAC replacement was required.
- No other carcinogenic air contaminants beyond those listed in Condition #14 of the HRA were detected in effluent above 10 ppbv, and therefore per Condition #16, no toxic risk assessment was required.

We also evaluated all the analytical and PID data and, based on our professional judgement, we do not recommend a voluntary changeout of the lead vessel GAC at this time.

| OU-1 SVE GAC Assessment – Based on Samples Collected June 4, 2021 |                      |          |          |                    |                       |
|---|----------------------|----------|----------|--------------------|-----------------------|
| Parameter   | Concentration (ppbv) |          |          |                    | Below 2015 HRA Limit? |
|   | Influent             | Midpoint | Effluent | HRA Effluent Limit |                       |
| 1,1,1-Trichloroethane (TCA)                                       | 2.5                  | 3.3      | ND       | 34                 | Yes                   |
| 1,1-Dichloroethane  | ND                   | ND       | ND       | 15                 | Yes                   |
| 1,1-Dichloroethene  | 1.2                  | 1.4      | 1.3      | 1,243              | Yes                   |
| 1,2-Dichloroethane  | ND                   | ND       | ND       | 14                 | Yes                   |
| Benzene   | ND                   | ND       | ND       | 65                 | Yes                   |
| Carbon disulfide  | ND                   | ND       | 4.9      | 1,007              | Yes                   |
| Chloroform  | ND                   | ND       | ND       | 48                 | Yes                   |
| Freon 11  | ND                   | ND       | 1        | 1,801              | Yes                   |
| Freon 113   | 4.5                  | 5.7      | 0.98     | 9,799              | Yes                   |
| Freon 12  | ND                   | ND       | ND       | 775                | Yes                   |
| Isopropyl Alcohol (Isopropanol)                                   | 4.2                  | 17       | 7.4      | 60                 | Yes                   |
| Methyl ethyl ketone   | 7.2                  | ND       | 14       | 75                 | Yes                   |
| Methylene chloride  | ND                   | ND       | ND       | 1,082              | Yes                   |

|                                |     |     |     |        |     |
|--------------------------------|-----|-----|-----|--------|-----|
| o-Xylene                       | ND  | ND  | ND  | 21     | Yes |
| Tetrachloroethene (PCE)        | 58  | 2   | 17  | 2,208  | Yes |
| TNMOC ref. to Heptane (MW=100) | 240 | 37  | 170 | 17,405 | Yes |
| Toluene                        | ND  | ND  | ND  | 47     | Yes |
| Trichloroethene (TCE)          | 3.6 | 1.2 | ND  | 198    | Yes |
| Vinyl chloride                 | ND  | ND  | ND  | 84     | Yes |

Please let us know if there are any questions or if you would like to discuss the data further. Have a great day.

**Maria Day**

CDM Smith

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## **ATTACHMENT B**

### **Summary of VEW and DPE Concentrations and Operational Data**

**Attachment B, Table B-1**  
**VEW / DPE Quarterly Operational Summary and Calculated Mass Removed**  
**OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site**  
**Second Quarter 2021**

| Location | Measurement Date      | Shallow / Deep | Flow (SCFM) | PID (ppmv) | Analytical Total VOCs <sup>2</sup> (ug/m3) | Temperature (deg. F) | Vacuum (in H <sub>2</sub> O, gauge) | Relative Humidity (%) | Calculated Mass Removed <sup>1</sup> (lbs) |
|----------|-----------------------|----------------|-------------|------------|--|----------------------|-------------------------------------|-----------------------|--|
| VE-1S    | 4/16/2021             | SHALLOW        | 17.0        | 0.3        | --   | 73.9                 | -18.0                               | 48.5                  | --   |
|          | 5/7/2021              | SHALLOW        | 19.2        | 0.2        |  | 80.5                 | -13.0                               | 38.3                  |  |
|          | 6/4/2021              | SHALLOW        | 14.0        | 0.2        |  | 83.8                 | -16.0                               | 57.6                  |  |
| VE-5S    | 4/16/2021             | SHALLOW        | 31.0        | 0.6        | --   | 73.9                 | -62.0                               | 47.0                  | --   |
|          | 5/7/2021              | SHALLOW        | 28.5        | 0.2        |  | 82.8                 | -41.0                               | 35.0                  |  |
|          | 6/4/2021              | SHALLOW        | 34.0        | 0.2        |  | 85.1                 | -40.0                               | 43.9                  |  |
| VE-6S    | 4/16/2021             | SHALLOW        | 66.0        | 0.6        | --   | 73.7                 | -20.0                               | 47.0                  | --   |
|          | 5/7/2021              | SHALLOW        | 41.0        | 0.3        |  | 82.2                 | -20.3                               | 37.2                  |  |
|          | 6/4/2021              | SHALLOW        | 68.0        | 0.3        |  | 85.0                 | -22.0                               | 45.1                  |  |
| VE-8S    | 4/16/2021             | SHALLOW        | 163.0       | 0.7        | --   | 76.4                 | -40.0                               | 46.4                  | --   |
|          | 5/7/2021              | SHALLOW        | 175.1       | 0.8        |  | 83.4                 | -40.0                               | 33.9                  |  |
|          | 6/4/2021              | SHALLOW        | 182.0       | 0.4        |  | 85.8                 | -37.0                               | 42.6                  |  |
| VE-9S    | 4/16/2021             | SHALLOW        | 46.0        | 0.8        | --   | 73.8                 | -41.0                               | 55.8                  | --   |
|          | 5/7/2021              | SHALLOW        | 54.7        | 0.4        |  | 82.4                 | -40.8                               | 33.1                  |  |
|          | 6/4/2021              | SHALLOW        | 47.0        | 0.4        |  | 83.6                 | -40.0                               | 46.1                  |  |
| VE-10S   | 4/16/2021             | SHALLOW        | 32.0        | 0.6        | --   | 74.2                 | -40.0                               | 46.5                  | --   |
|          | 5/7/2021              | SHALLOW        | 35.3        | 0.3        |  | 83.7                 | -40.0                               | 34.1                  |  |
|          | 6/4/2021              | SHALLOW        | 38.0        | 0.3        |  | 85.1                 | -38.0                               | 45.5                  |  |
| VE-11S   | 4/16/2021             | SHALLOW        | 105.0       | 0.6        | --   | 74.3                 | -30.0                               | 48.3                  | --   |
|          | 5/7/2021              | SHALLOW        | 57.3        | 0.2        |  | 82.6                 | -37.8                               | 34.3                  |  |
|          | 6/4/2021              | SHALLOW        | 108.0       | 0.3        |  | 85.4                 | -33.0                               | 49.9                  |  |
| VE-12S   | 4/16/2021             | SHALLOW        | 38.0        | 0.3        | --   | 73.8                 | -32.0                               | 47.4                  | --   |
|          | 5/7/2021              | SHALLOW        | 16.4        | 0.2        |  | 82.4                 | -25.0                               | 33.4                  |  |
|          | 6/4/2021              | SHALLOW        | 23.0        | 0.2        |  | 84.5                 | -28.0                               | 50.4                  |  |
| VE-14S   | 4/16/2021             | SHALLOW        | --          | 0.7        | --   | 73.8                 | -18.0                               | 46.3                  | --   |
|          | 5/7/2021 <sup>4</sup> | SHALLOW        | --          | --         |  | --                   | --                                  | --                    |  |
|          | 6/4/2021              | SHALLOW        | 57.0        | 0.5        |  | 84.8                 | -22.0                               | 50.3                  |  |
| VE-15S   | 4/16/2021             | SHALLOW        | 29.0        | 0.3        | --   | 74.1                 | -24.0                               | 46.4                  | --   |
|          | 5/7/2021 <sup>4</sup> | SHALLOW        | --          | --         |  | --                   | --                                  | --                    |  |
|          | 6/4/2021              | SHALLOW        | --          | 0.2        |  | 83.4                 | -32.0                               | 50.9                  |  |

**Attachment B, Table B-1**  
**VEW / DPE Quarterly Operational Summary and Calculated Mass Removed**  
**OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site**  
**Second Quarter 2021**

| Location | Measurement Date | Shallow / Deep | Flow (SCFM) | PID (ppmv) | Analytical Total VOCs <sup>2</sup> (ug/m3) | Temperature (deg. F) | Vacuum (in H <sub>2</sub> O, gauge) | Relative Humidity (%) | Calculated Mass Removed <sup>1</sup> (lbs) |
|----------|------------------|----------------|-------------|------------|--|----------------------|-------------------------------------|-----------------------|--|
| DPE-3    | 4/16/2021        | DEEP           | 108.0       | 1.5        | --   | 74.1                 | -36.0                               | 45.4                  | --   |
|          | 5/7/2021         | DEEP           | 115.3       | 1.9        |  | 81.4                 | -41.0                               | 35.7                  |  |
|          | 6/4/2021         | DEEP           | 107.0       | 0.8        |  | 83.0                 | -38.0                               | 50.4                  |  |
| DPE-4    | 4/16/2021        | DEEP           | 85.0        | 0.7        | --   | 73.1                 | -20.0                               | 49.4                  | --   |
|          | 5/7/2021         | DEEP           | 87.6        | 0.9        |  | 81.3                 | -25.4                               | 36.6                  |  |
|          | 6/4/2021         | DEEP           | 90.0        | 0.3        |  | 81.9                 | -20.0                               | 51.7                  |  |
| DPE-5    | 4/16/2021        | DEEP           | 104.0       | 0.6        | --   | 73.7                 | -42.0                               | 58.4                  | --   |
|          | 5/7/2021         | DEEP           | 109.4       | --         |  | 82.1                 | -41.5                               | 33.8                  |  |
|          | 6/4/2021         | DEEP           | 112.0       | 0.3        |  | 79.6                 | -42.0                               | 51.2                  |  |
| DPE-8    | 4/16/2021        | DEEP           | 79.0        | 0.6        | --   | 73.9                 | -28.0                               | 47.2                  | --   |
|          | 5/7/2021         | DEEP           | 78.2        | 1.0        |  | 73.8                 | -36.5                               | 43.5                  |  |
|          | 6/4/2021         | DEEP           | 84.0        | 0.4        |  | 77.9                 | -30.0                               | 52.7                  |  |
| DPE-9    | 4/16/2021        | DEEP           | 78.0        | 0.5        | --   | 73.5                 | -36.0                               | 50.3                  | --   |
|          | 5/7/2021         | DEEP           | 80.1        | 0.9        |  | 76.8                 | -18.5                               | 41.4                  |  |
|          | 6/4/2021         | DEEP           | 92.0        | 0.3        |  | 78.6                 | -36.0                               | 61.0                  |  |
| VE-2D    | 4/16/2021        | DEEP           | 129.0       | 8.2        | --   | 77.5                 | -26.7                               | 44.3                  | --   |
|          | 5/7/2021         | DEEP           | 125.8       | 2.8        |  | 84.9                 | -38.7                               | 32.1                  |  |
|          | 6/4/2021         | DEEP           | 86.0        | 3.7        |  | 85.0                 | -27.3                               | 46.4                  |  |
| VE-14D   | 4/16/2021        | DEEP           | 83.0        | 0.6        | --   | 73.1                 | -22.0                               | 49.6                  | --   |
|          | 5/7/2021         | DEEP           | 82.2        | 0.7        |  | 80.6                 | -22.5                               | 37.5                  |  |
|          | 6/4/2021         | DEEP           | 93.0        | 0.3        |  | 80.4                 | -22.0                               | 54.8                  |  |

**Notes:**

DPE = dual phase extraction

ppmv = parts per million by volume

VOC = volatile organic compound

F = Fahrenheit

SCFM = standard cubic feet per minute

Shallow = between 0 and 30 feet below ground surface

lbs = pounds

ug/m3 = micrograms per liter

Deep = between approximately 30 and 100 feet below ground surface

PID = photoionization detector

VE = vapor extraction

-- = Not measured

in H<sub>2</sub>O, gauge = inches of water pressure, relative to atmospheric pressure; a negative gauge pressure is considered vacuum

1. Calculations are based on a subset of total VOC data from laboratory analyses of vapor samples, when collected, and measured flow rates from individual VEWs and the total system influent. Mass calculations are rounded to nearest 0.1 pound. If less than 0.05 pounds were calculated for the period, this will show as 0.0 pounds. VOCs that are not detected above the RLs are not included in the mass calculation. VEWs are not required to be sampled each quarter. If VEWs are sampled, it is based on operational considerations and to assist in mass calculations. All VEWs are sampled once per year.

2. A subset of VOC data used in mass removed calculations. TVOC concentrations are calculated using the detected concentrations from the following compounds: Tetrachloroethene (PCE), Trichloroethene (TCE), 1,1-Dichloroethene, Vinyl chloride, 1,1,1-Trichloroethane (TCA), 1,1-Dichloroethane, 1,2-Dichloroethane, Chloroform, Methylene chloride, Freon 11, Freon 12, Freon 113, Benzene, Toluene, o-Xylene, Carbon disulfide, Methyl ethyl ketone, Isopropyl Alcohol (Isopropanol), which account for approximately 98% of compounds in the data stream. No samples collected this quarter.

3. Only VE and DPE wells connected to the OU-1 SVE System are presented.

4. No data were collected for VE-14S and VE-15S as the extraction wells were closed during the monitoring event on May 7, 2021 (due to EPA-approved operational cycling).

## **ATTACHMENT C**

### **Summary of Vapor Monitoring Probe Concentrations and Vacuum**

**Attachment C, Table C-1**  
**Shallow Vapor Monitoring Probe Vacuum Summary**  
**OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site**  
**Second Quarter 2021**

| Location | Monitoring Point Depth (feet bgs) | Vapor Extraction Well ROI <sup>1</sup> | Measurement Date | Vacuum <sup>2,3</sup> (in H <sub>2</sub> O, gauge) |
|----------|-----------------------------------|--|------------------|--|
| VE-1M    | 36 <sup>4</sup>                   | VE-1S, VE-5S                           | 4/16/2021        | -0.62  |
| VE-2S    | 22                                | VE-1S, VE-5S                           | 4/16/2021        | -0.15  |
| VE-4S    | 22                                | VE-1S, VE-5S                           | 4/16/2021        | -0.32  |
| VE-5M    | 36 <sup>4</sup>                   | VE-5S                                  | 4/16/2021        | -0.96  |
| VE-7S    | 30                                | VE-8S                                  | 4/16/2021        | -0.32  |
| VMP-11   | 30                                | VE-10S, VE-12S                         | 4/12/2021        | -0.57  |
| VMP-12   | 30                                | VE-10S, VE-11S                         | 4/12/2021        | -1.24  |
| VMP-13   | 30                                | VE-31S                                 | 4/13/2021        | -0.45  |
| VMP-14   | 30                                |  | 4/13/2021        | -0.23  |
| VMP-15   | 30                                | VE-10S, VE-9S                          | 4/12/2021        | -0.77  |
| VMP-16   | 30                                | VE-11S                                 | 4/12/2021        | -0.77  |
| VMP-17   | 30                                |  | 4/12/2021        | -1.31  |
| VMP-18   | 30                                | VE-15S                                 | 4/12/2021        | -0.04  |
| VMP-20   | 30                                | VE-5S, VE-8S                           | 4/16/2021        | -0.14  |
| VMP-21   | 30                                | VE-15S                                 | 4/16/2021        | -0.15  |
| VMP-22   | 30                                |  | 4/16/2021        | -0.24  |
| VMP-23   | 30                                |  | 4/12/2021        | -0.02  |
| VMP-24   | 30                                |  | 4/12/2021        | -0.07  |
| VMP-25   | 30                                |  | 4/12/2021        | 0.00   |
| VMP-26   | 30                                | VE-14S                                 | 4/16/2021        | -0.05  |
| VMP-27   | 30                                | VE-14S                                 | 4/16/2021        | -0.03  |
| VMP-31   | 6                                 | VE-21S                                 | 4/12/2021        | -0.02  |
|          | 12                                | VE-21S                                 | 4/12/2021        | -0.03  |
|          | 24                                | VE-21S                                 | 4/12/2021        | -0.07  |
| VMP-32   | 6                                 | VE-39S                                 | 4/12/2021        | -0.04  |
|          | 12                                | VE-39S                                 | 4/12/2021        | -0.05  |
|          | 24                                | VE-39S                                 | 4/12/2021        | -1.09  |
| VMP-43   | 6                                 | VE-31S                                 | 4/13/2021        | -0.43  |
|          | 12                                | VE-31S                                 | 4/13/2021        | -0.43  |
|          | 24                                | VE-31S                                 | 4/13/2021        | -0.47  |
| VMP-94   | 6                                 | VE-31S                                 | 4/13/2021        | -0.21  |
|          | 12                                | VE-31S                                 | 4/13/2021        | -0.25  |
|          | 24                                | VE-31S                                 | 4/13/2021        | -0.37  |

**Notes:**

bgs = below ground surface

1. ROI = Estimated design radius of influence by the vapor extraction well (VEW) listed. If no VEW is listed, then the VMP is not within the design ROI of a VEW.

2. in H<sub>2</sub>O, gauge = inches of water pressure relative to atmospheric pressure. A negative gauge pressure is considered vacuum.

3. Yellow highlighted cells indicate a VMP within the design ROI of a VEW that did not meet the target vacuum of -0.1 in H<sub>2</sub>O at the time the monitoring was conducted.

4. These wells are considered part of shallow vapor monitoring as their well screen intervals are 26 - 36 feet below ground surface.

**Attachment C, Table C-2**  
**Deep Vapor Monitoring Probe Vacuum Summary**  
**OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site**  
**Second Quarter 2021**

| Location | Monitoring Point Depth (feet bgs) | Vapor Extraction Well ROI <sup>1</sup> | Measurement Date | Vacuum <sup>2,3</sup> (in H <sub>2</sub> O, gauge) |
|----------|-----------------------------------|--|------------------|--|
| VMP-1D   | 70                                | DPE-8                                  | 4/16/2021        | -0.75  |
| VMP-3D   | 70                                | VE-2D                                  | 4/16/2021        | -0.48  |
| VMP-4D   | 70                                | DPE-3, VE-2D                           | 4/16/2021        | -1.92  |
| VMP-5    | 45                                | VE-2D                                  | 4/16/2021        | -0.27  |
| VMP-31   | 40                                | VE-6D                                  | 4/12/2021        | 0.00   |
|          | 55                                | VE-6D                                  | 4/12/2021        | 0.00   |
|          | 60                                | VE-6D                                  | 4/12/2021        | -0.15  |
|          | 70                                | VE-6D                                  | 4/12/2021        | 0.00   |
| VMP-32   | 40                                | VE-10D                                 | 4/12/2021        | -0.28  |
|          | 55                                | VE-10D                                 | 4/12/2021        | -0.29  |
|          | 60                                | VE-10D                                 | 4/12/2021        | -0.10  |
|          | 70                                | VE-10D                                 | 4/12/2021        | -0.11  |
| VMP-92   | 50                                | DPE-5                                  | 4/12/2021        | -0.36  |
|          | 60                                | DPE-5                                  | 4/12/2021        | -0.89  |
|          | 70                                | DPE-5                                  | 4/12/2021        | -0.09  |
| VMP-93   | 50                                |  | 4/12/2021        | -1.25  |
|          | 60                                |  | 4/12/2021        | -1.19  |
|          | 70                                |  | 4/12/2021        | -1.24  |
| VMP-94   | 40                                | DPE-4, VE-14D                          | 4/13/2021        | -0.42  |
|          | 50                                | DPE-4, VE-14D                          | 4/13/2021        | -0.58  |
|          | 60                                | DPE-4, VE-14D                          | 4/13/2021        | -1.21  |
|          | 70                                | DPE-4, VE-14D                          | 4/13/2021        | -0.15  |
| VMP-95   | 50                                |  | 4/13/2021        | -8.61  |
|          | 60                                |  | 4/13/2021        | -0.86  |
|          | 70                                |  | 4/13/2021        | -1.36  |

**Notes:**

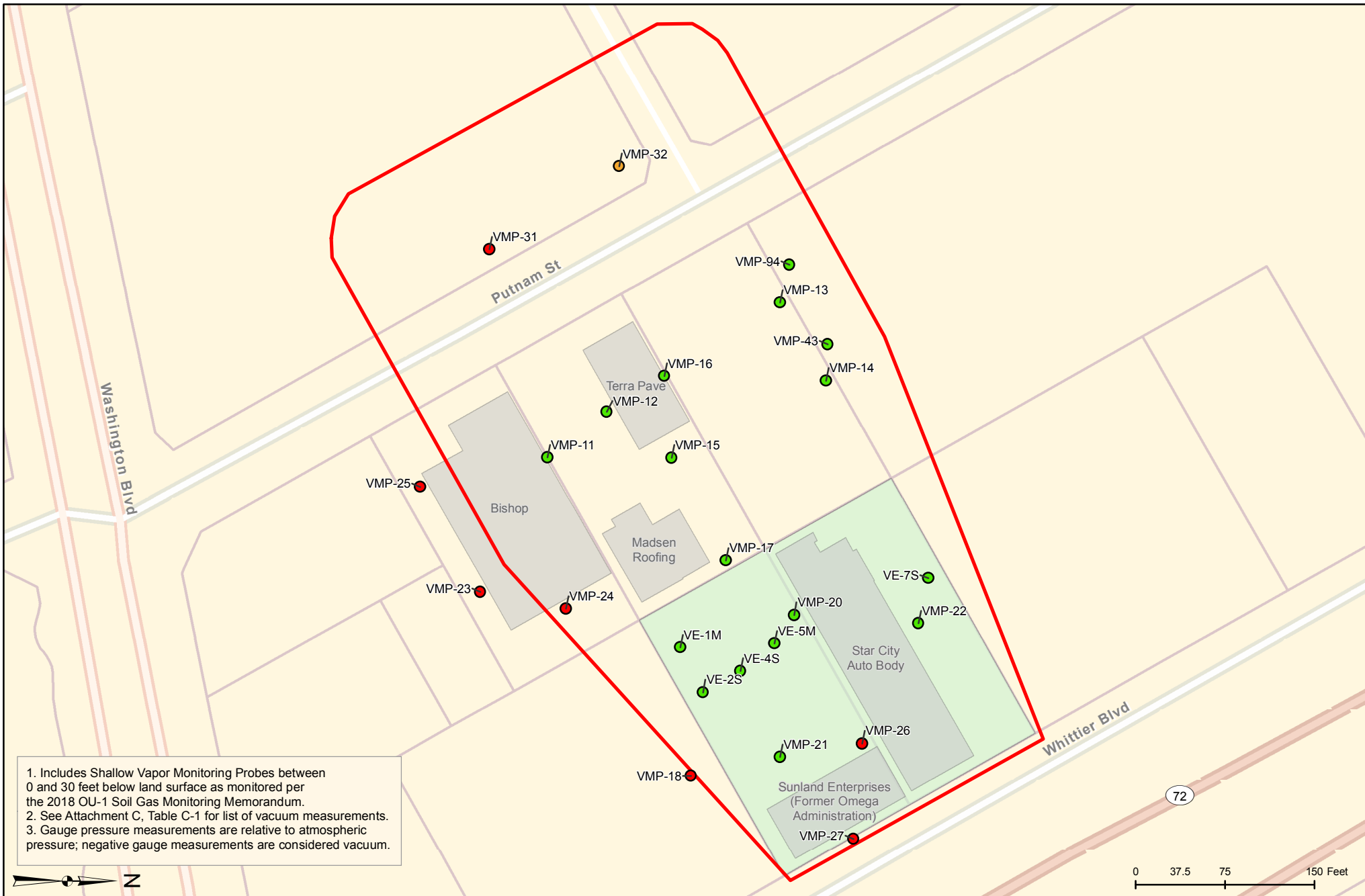
bgs = below ground surface

1. ROI = Estimated design radius of influence by the vapor extraction well (VEW) listed. If no VEW is listed, then the VMP is not within the design ROI of a VEW.

2. in H<sub>2</sub>O, gauge = inches of water pressure relative to atmospheric pressure. A negative gauge pressure is considered vacuum.

3. Yellow highlighted cells indicate a VMP within the design ROI of a VEW that did not meet the target vacuum of -0.1 in H<sub>2</sub>O at the time the monitoring was conducted.





#### Vacuum

- < -0.1 in H<sub>2</sub>O (gauge) at all depths
- > -0.1 in H<sub>2</sub>O (gauge) at some depths
- > -0.1 in H<sub>2</sub>O (gauge) at all depths
- no vacuum data available

- OU-1 Boundary
- Building Currently Commercially/Industrially Occupied
- Building Currently Vacant
- Former Omega Chemical Property Boundary



Reviewed By: MS  
 Drawn By: KM  
 Date: 7/13/2021

**Attachment C, Figure C-1**  
**Vacuum Influence at**  
**Shallow Vapor Monitoring Probes**  
**OU-1 Full Scale On-Site Soil Remedy,**  
**Omega Chemical Superfund Site**  
**Second Quarter 2021**



#### Vacuum

- achieves target vacuum at all depths
- achieves target vacuum at some depths
- does not achieve target vacuum
- no vacuum data available

- OU-1 Boundary
- Building Currently Commercially/Industrially Occupied
- Building Currently Vacant
- Former Omega Chemical Property Boundary



Reviewed By: MS  
Drawn By: KM  
Date: 7/13/2021

**Attachment C, Figure C-2  
Vacuum Influence at  
Deep Vapor Monitoring Probes  
OU-1 Full Scale On-Site Soil Remedy,  
Omega Chemical Superfund Site  
Second Quarter 2021**

# **ATTACHMENT E**

## **Field Forms**

VAPOR PROBE MONITORING FORM

Omega - VMP Monitoring Q2

Date: 4/12, 4/13, 4/16

Technician: K. Azhar, R. Barclay

| WELL ID  | Purge Volume<br>(Liters)<br>Recomm / Actual | Purge Time (min)<br>Recomm / Actual | Flow Rate (L/min)<br>Recomm / Actual | Vacuum<br>Exerted<br>("Hg)<br><7.36"Hg<br>BISHOP | Date    | Time | Observed<br>Vacuum<br>("H2O) | Take<br>Sample?<br>(Y/N) | Notes  |
|--|---|-------------------------------------|--------------------------------------|--|---------|------|------------------------------|--------------------------|--------|
| 12519 Putnam St, Whittier, CA  |   |                                     |                                      |  |         |      |                              |                          |        |
| VMP-23-30  |   |                                     |                                      |  | 4/12/21 | 1332 | -0.066                       | N                        | -0.022 |
| VMP-24-30  |   |                                     |                                      |  | "       | 1332 | -0.066                       | N                        |        |
| VMP-25-30  |   |                                     |                                      |  | "       | 1335 | -0.004                       | N                        |        |
| KAISER PERMANENTE MEDICAL OFFICES<br>12470 Whittier Blvd, Whittier, CA |   |                                     |                                      |  |         |      |                              |                          |        |
| VMP-43-6   |   |                                     |                                      |  | 4/13/21 | 0837 | -0.432                       | N                        |        |
| VMP-43-12  |   |                                     |                                      |  | "       | 0838 | -0.425                       | N                        |        |
| VMP-43-24  |   |                                     |                                      |  | "       | 0839 | -0.470                       | N                        |        |
| VMP-94-6   |   |                                     |                                      |  | 4/13/21 | 0828 | -0.211                       | N                        |        |
| VMP-94-12  |   |                                     |                                      |  |         | 0829 | -0.251                       | N                        |        |
| VMP-94-24  |   |                                     |                                      |  |         | 0830 | -0.367                       | N                        |        |
| VMP-94-40  |   |                                     |                                      |  |         | 0832 | -0.421                       | N                        |        |
| VMP-94-50  |   |                                     |                                      |  |         | 0833 | -0.577                       | N                        |        |
| VMP-94-60  |   |                                     |                                      |  |         | 0834 | -1.214                       | N                        |        |
| VMP-94-70  |   |                                     |                                      |  |         | 0835 | -0.146                       | N                        |        |
| VMP-95-50  |   |                                     |                                      |  |         | 0842 | -8.612                       | N                        |        |
| VMP-95-60  |   |                                     |                                      |  |         | 0843 | -0.864                       | N                        |        |
| VMP-95-70  |   |                                     |                                      |  |         | 0844 | -1.357                       | N                        |        |
| ROP AND WCCS (FORMER)<br>12519 Washington Blvd, Whittier, CA           |   |                                     |                                      |  |         |      |                              |                          |        |
| VMP-31-6   |   |                                     |                                      |  | 4/12/21 | 0849 | -0.018                       | N                        |        |
| VMP-31-12  |   |                                     |                                      |  | 4/12/21 | 0851 | -0.031                       | N                        |        |
| VMP-31-24  |   |                                     |                                      |  | 4/12/21 | 0852 | -0.068                       | N                        |        |
| VMP-31-40  |   |                                     |                                      |  | 4/12/21 | 0900 | Ø                            | N                        |        |
| VMP-31-55  |   |                                     |                                      |  | 4/12/21 | 0901 | Ø                            | N                        |        |
| VMP-31-60  |   |                                     |                                      |  | 4/12/21 | 0902 | -0.151                       | N                        |        |
| VMP-31-70  |   |                                     |                                      |  | 4/12/21 | 0905 | Ø                            | N                        |        |
| VMP-32-6   |   |                                     |                                      |  | 4/12/21 | 0936 | -0.035                       | N                        |        |
| VMP-32-12  |   |                                     |                                      |  | 4/12/21 | 0938 | -0.049                       | N                        |        |



|                                   |   |   |   |   |         |      |        |   |  |
|-----------------------------------|---|---|---|---|---------|------|--------|---|--|
| VMP-32-24                         | - | - | - | - | 4/12/21 | 0840 | -1.087 | N |  |
| VMP-32-40                         | - | - | - | - | 7/12/21 | 0844 | -0.275 | N |  |
| VMP-32-55                         | - | - | - | - | 4/12/21 | 0842 | -0.274 | N |  |
| VMP-32-60                         | - | - | - | - | 4/12/21 | 0847 | -0.096 | N |  |
| VMP-32-70                         | - | - | - | - | 7/12/21 | 0850 | -0.106 | N |  |
| SKATELAND (FORMER)                |   |   |   |   |         |      |        |   |  |
| 12520 Whittier Blvd, Whittier, CA |   |   |   |   |         |      |        |   |  |
| VMP-18-30                         | - | - | - | - | 7/12/21 | 0752 | -0.037 | N |  |
| STAR CITY AUTO BODY               |   |   |   |   |         |      |        |   |  |
| 12504 Whittier Blvd, Whittier, CA |   |   |   |   |         |      |        |   |  |
| VE-7S                             |   |   |   |   | 4/16/21 | 1127 | -0.315 | N |  |
| VMP-22-30                         |   |   |   |   |         | 1117 | -0.235 | N |  |
| VMP-3D                            |   |   |   |   |         | 1122 | -0.478 | N |  |
| VMP-4D                            |   |   |   |   |         | 1135 | -1.922 | N |  |
| VMP-5-45                          |   |   |   |   |         | 1125 | -0.265 | N |  |
| TERRA PAVE                        |   |   |   |   |         |      |        |   |  |
| 12511 Putnam St, Whittier, CA     |   |   |   |   |         |      |        |   |  |
| VMP-11-30                         | - | - | - | - | 4/12/21 | 1210 | -0.566 | N |  |
| VMP-12-30                         | - | - | - | - | 4/12/21 | 1242 | -1.238 | N |  |
| VMP-13-30                         |   |   |   |   | 4/13/21 | 0951 | -0.454 | N |  |
| VMP-14-30                         |   |   |   |   | 7/13/21 | 0958 | -0.229 | N |  |
| VMP-15-30                         | - | - | - | - | 4/12/21 | 1218 | -0.767 | N |  |
| VMP-16-30                         | - | - | - | - |         | 1226 | -0.369 | N |  |
| VMP-17-30                         | - | - | - | - |         | 1222 | -1.313 | N |  |
| VMP-92-50                         | - | - | - | - |         | 1213 | -0.364 | N |  |
| VMP-92-60                         | - | - | - | - |         | 1215 | -0.888 | N |  |
| VMP-92-70                         | - | - | - | - |         | 1216 | -0.090 | N |  |
| VMP-93-50                         | - | - | - | - |         | 1235 | -1.248 | N |  |
| VMP-93-60                         | - | - | - | - |         | 1237 | -1.186 | N |  |
| VMP-93-70                         | - | - | - | - |         | 1239 | -1.235 | N |  |
| THREE KINGS CONSTRUCTION (FORMER) |   |   |   |   |         |      |        |   |  |
| 12512 Whittier Blvd, Whittier, CA |   |   |   |   |         |      |        |   |  |
| VE-1M                             |   |   |   |   | 4/16/21 | 0800 | -0.622 | N |  |
| VE-2S                             |   |   |   |   | 7/16/21 | 0803 | -0.150 | N |  |
| VE-4S                             |   |   |   |   | 4/16/21 | 0805 | -0.324 | N |  |
| VE-5M                             |   |   |   |   | 7/16/21 | 0809 | -0.961 | N |  |
| VMP-1D                            |   |   |   |   | 4/16/21 | 0807 | -0.745 | N |  |
| VMP-20-30                         |   |   |   |   | 7/16/21 | 0810 | -0.140 | N |  |
| VMP-21-30                         |   |   |   |   | 7/16/21 | 0755 | -0.146 | N |  |

|           |  |  |  |  |         |      |        |   |  |
|-----------|--|--|--|--|---------|------|--------|---|--|
| VMP-26-30 |  |  |  |  | 4/16/21 | 0757 | -0.048 | N |  |
| VMP-27-30 |  |  |  |  | 4/16/21 | 0752 | -0.033 | N |  |

4/26/2021

Ms. Jaime Dinello

DeMaximis, Inc

1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega - OU1 SVE Monthly GAC Sampling

Project #:

Workorder #: 2104386

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 4/19/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kathleen Kaneko at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kathleen Kaneko

Project Manager

**WORK ORDER #: 2104386**

Work Order Summary

|                        |   |                  |   |
|------------------------|---|------------------|---|
| <b>CLIENT:</b>         | Ms. Jaime Dinello<br>DeMaximis, Inc<br>1340 Reynolds Ave, Suite 105<br>Irvine, CA 92614 | <b>BILL TO:</b>  | Mr. Tom Dorsey<br>Omega Chemical Site Environmental<br>Remediation Trust<br>1322 Scott St.<br>Suite 104 |
| <b>PHONE:</b>          | 949.679.9290  | <b>P.O. #</b>    |   |
| <b>FAX:</b>            | 949.679.9078  | <b>PROJECT #</b> | Omega - OU1 SVE Monthly GAC   |
| <b>DATE RECEIVED:</b>  | 04/19/2021  | <b>CONTACT:</b>  | Sampling<br>Kathleen Kaneko   |
| <b>DATE COMPLETED:</b> | 04/26/2021  |                  |   |

| <u>FRACTION #</u> | <u>NAME</u>           | <u>TEST</u> | <u>RECEIPT<br/>VAC./PRES.</u> | <u>FINAL<br/>PRESSURE</u> |
|-------------------|-----------------------|-------------|-------------------------------|---------------------------|
| 01A               | OC_SVE_EFF_GAC_041621 | TO-15       | 5.7 "Hg                       | 10 psi                    |
| 02A               | OC_SVE_MID_GAC_041621 | TO-15       | 5.9 "Hg                       | 10 psi                    |
| 03A               | OC_SVE_INF_GAC_041621 | TO-15       | 5.1 "Hg                       | 9.9 psi                   |
| 04A               | Lab Blank             | TO-15       | NA                            | NA                        |
| 05A               | CCV                   | TO-15       | NA                            | NA                        |
| 06A               | LCS                   | TO-15       | NA                            | NA                        |
| 06AA              | LCSD                  | TO-15       | NA                            | NA                        |

CERTIFIED BY:



Technical Director

DATE: 04/26/21

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT NELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.

Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

*This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.*

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279



**LABORATORY NARRATIVE**  
**EPA Method TO-15**  
**DeMaximis, Inc**  
**Workorder# 2104386**

Three 1 Liter Summa Canister samples were received on April 19, 2021. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

**Receiving Notes**

There were no receiving discrepancies.

**Analytical Notes**

A single point calibration for TNMOC referenced to Heptane was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

The TNMOC concentration was calculated by taking the total area counts in the sample and quantitating the area based on the response factor of Heptane.

**Definition of Data Qualifying Flags**

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

## Summary of Detected Compounds

### EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: OC\_SVE\_EFF\_GAC\_041621**

**Lab ID#: 2104386-01A**

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 11                         | 1.0                  | 1.8              | 5.8                   | 10                |
| Freon 113                        | 1.0                  | 1.8              | 7.9                   | 14                |
| 1,1-Dichloroethene               | 1.0                  | 1.1              | 4.1                   | 4.2               |
| 2-Butanone (Methyl Ethyl Ketone) | 4.1                  | 43               | 12                    | 130               |
| Benzene                          | 1.0                  | 1.2              | 3.3                   | 3.7               |
| Trichloroethene                  | 1.0                  | 1.2              | 5.6                   | 6.8               |
| Tetrachloroethene                | 1.0                  | 37               | 7.0                   | 250               |
| TNMOC ref. to Heptane (MW=100)   | 21                   | 820              | 85                    | 3400              |

**Client Sample ID: OC\_SVE\_MID\_GAC\_041621**

**Lab ID#: 2104386-02A**

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 11                         | 1.0                  | 1.5              | 5.9                   | 8.5               |
| Freon 113                        | 1.0                  | 7.6              | 8.0                   | 58                |
| 1,1-Dichloroethene               | 1.0                  | 1.6              | 4.1                   | 6.5               |
| 2-Propanol                       | 4.2                  | 5.2              | 10                    | 13                |
| 2-Butanone (Methyl Ethyl Ketone) | 4.2                  | 15               | 12                    | 44                |
| 1,1,1-Trichloroethane            | 1.0                  | 4.3              | 5.7                   | 24                |
| Trichloroethene                  | 1.0                  | 1.2              | 5.6                   | 6.2               |
| Tetrachloroethene                | 1.0                  | 4.4              | 7.1                   | 30                |
| TNMOC ref. to Heptane (MW=100)   | 21                   | 130              | 85                    | 530               |

**Client Sample ID: OC\_SVE\_INF\_GAC\_041621**

**Lab ID#: 2104386-03A**

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 11                         | 1.0                  | 1.2              | 5.7                   | 6.7               |
| Freon 113                        | 1.0                  | 4.0              | 7.7                   | 31                |
| 1,1-Dichloroethene               | 1.0                  | 1.4              | 4.0                   | 5.6               |
| 2-Butanone (Methyl Ethyl Ketone) | 4.0                  | 12               | 12                    | 34                |
| 1,1,1-Trichloroethane            | 1.0                  | 2.1              | 5.5                   | 11                |
| Trichloroethene                  | 1.0                  | 3.6              | 5.4                   | 19                |

**Summary of Detected Compounds**  
**EPA METHOD TO-15 GC/MS FULL SCAN**

**Client Sample ID: OC\_SVE\_INF\_GAC\_041621**

**Lab ID#: 2104386-03A**

|                                |     |     |     |      |
|--------------------------------|-----|-----|-----|------|
| Toluene                        | 1.0 | 2.6 | 3.8 | 9.8  |
| Tetrachloroethene              | 1.0 | 57  | 6.8 | 390  |
| TNMOC ref. to Heptane (MW=100) | 20  | 350 | 83  | 1400 |



## Air Toxics

Client Sample ID: OC\_SVE\_EFF\_GAC\_041621

Lab ID#: 2104386-01A

### EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                    |
|--------------|---------|---------------------|--------------------|
| File Name:   | p042109 | Date of Collection: | 4/16/21 9:55:00 AM |
| Dil. Factor: | 2.07    | Date of Analysis:   | 4/21/21 03:13 PM   |

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12                         | 1.0                  | Not Detected     | 5.1                   | Not Detected      |
| Vinyl Chloride                   | 1.0                  | Not Detected     | 2.6                   | Not Detected      |
| Freon 11                         | 1.0                  | 1.8              | 5.8                   | 10                |
| Freon 113                        | 1.0                  | 1.8              | 7.9                   | 14                |
| 1,1-Dichloroethene               | 1.0                  | 1.1              | 4.1                   | 4.2               |
| 2-Propanol                       | 4.1                  | Not Detected     | 10                    | Not Detected      |
| Carbon Disulfide                 | 4.1                  | Not Detected     | 13                    | Not Detected      |
| Methylene Chloride               | 10                   | Not Detected     | 36                    | Not Detected      |
| Hexane                           | 1.0                  | Not Detected     | 3.6                   | Not Detected      |
| 1,1-Dichloroethane               | 1.0                  | Not Detected     | 4.2                   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 4.1                  | 43               | 12                    | 130               |
| Chloroform                       | 1.0                  | Not Detected     | 5.0                   | Not Detected      |
| 1,1,1-Trichloroethane            | 1.0                  | Not Detected     | 5.6                   | Not Detected      |
| Carbon Tetrachloride             | 1.0                  | Not Detected     | 6.5                   | Not Detected      |
| Benzene                          | 1.0                  | 1.2              | 3.3                   | 3.7               |
| 1,2-Dichloroethane               | 1.0                  | Not Detected     | 4.2                   | Not Detected      |
| Trichloroethene                  | 1.0                  | 1.2              | 5.6                   | 6.8               |
| 1,4-Dioxane                      | 4.1                  | Not Detected     | 15                    | Not Detected      |
| Toluene                          | 1.0                  | Not Detected     | 3.9                   | Not Detected      |
| 1,1,2-Trichloroethane            | 1.0                  | Not Detected     | 5.6                   | Not Detected      |
| Tetrachloroethene                | 1.0                  | 37               | 7.0                   | 250               |
| o-Xylene                         | 1.0                  | Not Detected     | 4.5                   | Not Detected      |
| TNMOC ref. to Heptane (MW=100)   | 21                   | 820              | 85                    | 3400              |

### Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 97        | 70-130           |
| 1,2-Dichloroethane-d4 | 104       | 70-130           |
| 4-Bromofluorobenzene  | 108       | 70-130           |



## Air Toxics

Client Sample ID: OC\_SVE\_MID\_GAC\_041621

Lab ID#: 2104386-02A

### EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                    |
|--------------|---------|---------------------|--------------------|
| File Name:   | p042110 | Date of Collection: | 4/16/21 9:57:00 AM |
| Dil. Factor: | 2.09    | Date of Analysis:   | 4/21/21 03:42 PM   |

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12                         | 1.0                  | Not Detected     | 5.2                   | Not Detected      |
| Vinyl Chloride                   | 1.0                  | Not Detected     | 2.7                   | Not Detected      |
| Freon 11                         | 1.0                  | 1.5              | 5.9                   | 8.5               |
| Freon 113                        | 1.0                  | 7.6              | 8.0                   | 58                |
| 1,1-Dichloroethene               | 1.0                  | 1.6              | 4.1                   | 6.5               |
| 2-Propanol                       | 4.2                  | 5.2              | 10                    | 13                |
| Carbon Disulfide                 | 4.2                  | Not Detected     | 13                    | Not Detected      |
| Methylene Chloride               | 10                   | Not Detected     | 36                    | Not Detected      |
| Hexane                           | 1.0                  | Not Detected     | 3.7                   | Not Detected      |
| 1,1-Dichloroethane               | 1.0                  | Not Detected     | 4.2                   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 4.2                  | 15               | 12                    | 44                |
| Chloroform                       | 1.0                  | Not Detected     | 5.1                   | Not Detected      |
| 1,1,1-Trichloroethane            | 1.0                  | 4.3              | 5.7                   | 24                |
| Carbon Tetrachloride             | 1.0                  | Not Detected     | 6.6                   | Not Detected      |
| Benzene                          | 1.0                  | Not Detected     | 3.3                   | Not Detected      |
| 1,2-Dichloroethane               | 1.0                  | Not Detected     | 4.2                   | Not Detected      |
| Trichloroethene                  | 1.0                  | 1.2              | 5.6                   | 6.2               |
| 1,4-Dioxane                      | 4.2                  | Not Detected     | 15                    | Not Detected      |
| Toluene                          | 1.0                  | Not Detected     | 3.9                   | Not Detected      |
| 1,1,2-Trichloroethane            | 1.0                  | Not Detected     | 5.7                   | Not Detected      |
| Tetrachloroethene                | 1.0                  | 4.4              | 7.1                   | 30                |
| o-Xylene                         | 1.0                  | Not Detected     | 4.5                   | Not Detected      |
| TNMOC ref. to Heptane (MW=100)   | 21                   | 130              | 85                    | 530               |

#### Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 99        | 70-130           |
| 1,2-Dichloroethane-d4 | 109       | 70-130           |
| 4-Bromofluorobenzene  | 105       | 70-130           |

Client Sample ID: OC\_SVE\_INF\_GAC\_041621

Lab ID#: 2104386-03A

EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                    |
|--------------|---------|---------------------|--------------------|
| File Name:   | p042111 | Date of Collection: | 4/16/21 9:58:00 AM |
| Dil. Factor: | 2.02    | Date of Analysis:   | 4/21/21 04:11 PM   |

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12                         | 1.0                  | Not Detected     | 5.0                   | Not Detected      |
| Vinyl Chloride                   | 1.0                  | Not Detected     | 2.6                   | Not Detected      |
| Freon 11                         | 1.0                  | 1.2              | 5.7                   | 6.7               |
| Freon 113                        | 1.0                  | 4.0              | 7.7                   | 31                |
| 1,1-Dichloroethene               | 1.0                  | 1.4              | 4.0                   | 5.6               |
| 2-Propanol                       | 4.0                  | Not Detected     | 9.9                   | Not Detected      |
| Carbon Disulfide                 | 4.0                  | Not Detected     | 12                    | Not Detected      |
| Methylene Chloride               | 10                   | Not Detected     | 35                    | Not Detected      |
| Hexane                           | 1.0                  | Not Detected     | 3.6                   | Not Detected      |
| 1,1-Dichloroethane               | 1.0                  | Not Detected     | 4.1                   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 4.0                  | 12               | 12                    | 34                |
| Chloroform                       | 1.0                  | Not Detected     | 4.9                   | Not Detected      |
| 1,1,1-Trichloroethane            | 1.0                  | 2.1              | 5.5                   | 11                |
| Carbon Tetrachloride             | 1.0                  | Not Detected     | 6.4                   | Not Detected      |
| Benzene                          | 1.0                  | Not Detected     | 3.2                   | Not Detected      |
| 1,2-Dichloroethane               | 1.0                  | Not Detected     | 4.1                   | Not Detected      |
| Trichloroethene                  | 1.0                  | 3.6              | 5.4                   | 19                |
| 1,4-Dioxane                      | 4.0                  | Not Detected     | 14                    | Not Detected      |
| Toluene                          | 1.0                  | 2.6              | 3.8                   | 9.8               |
| 1,1,2-Trichloroethane            | 1.0                  | Not Detected     | 5.5                   | Not Detected      |
| Tetrachloroethene                | 1.0                  | 57               | 6.8                   | 390               |
| o-Xylene                         | 1.0                  | Not Detected     | 4.4                   | Not Detected      |
| TNMOC ref. to Heptane (MW=100)   | 20                   | 350              | 83                    | 1400              |

Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 99        | 70-130           |
| 1,2-Dichloroethane-d4 | 104       | 70-130           |
| 4-Bromofluorobenzene  | 110       | 70-130           |

Client Sample ID: Lab Blank

Lab ID#: 2104386-04A

EPA METHOD TO-15 GC/MS FULL SCAN

|              |          |                                    |
|--------------|----------|------------------------------------|
| File Name:   | p042106d | Date of Collection: NA             |
| Dil. Factor: | 1.00     | Date of Analysis: 4/21/21 12:52 PM |

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12                         | 0.50                 | Not Detected     | 2.5                   | Not Detected      |
| Vinyl Chloride                   | 0.50                 | Not Detected     | 1.3                   | Not Detected      |
| Freon 11                         | 0.50                 | Not Detected     | 2.8                   | Not Detected      |
| Freon 113                        | 0.50                 | Not Detected     | 3.8                   | Not Detected      |
| 1,1-Dichloroethene               | 0.50                 | Not Detected     | 2.0                   | Not Detected      |
| 2-Propanol                       | 2.0                  | Not Detected     | 4.9                   | Not Detected      |
| Carbon Disulfide                 | 2.0                  | Not Detected     | 6.2                   | Not Detected      |
| Methylene Chloride               | 5.0                  | Not Detected     | 17                    | Not Detected      |
| Hexane                           | 0.50                 | Not Detected     | 1.8                   | Not Detected      |
| 1,1-Dichloroethane               | 0.50                 | Not Detected     | 2.0                   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 2.0                  | Not Detected     | 5.9                   | Not Detected      |
| Chloroform                       | 0.50                 | Not Detected     | 2.4                   | Not Detected      |
| 1,1,1-Trichloroethane            | 0.50                 | Not Detected     | 2.7                   | Not Detected      |
| Carbon Tetrachloride             | 0.50                 | Not Detected     | 3.1                   | Not Detected      |
| Benzene                          | 0.50                 | Not Detected     | 1.6                   | Not Detected      |
| 1,2-Dichloroethane               | 0.50                 | Not Detected     | 2.0                   | Not Detected      |
| Trichloroethene                  | 0.50                 | Not Detected     | 2.7                   | Not Detected      |
| 1,4-Dioxane                      | 2.0                  | Not Detected     | 7.2                   | Not Detected      |
| Toluene                          | 0.50                 | Not Detected     | 1.9                   | Not Detected      |
| 1,1,2-Trichloroethane            | 0.50                 | Not Detected     | 2.7                   | Not Detected      |
| Tetrachloroethene                | 0.50                 | Not Detected     | 3.4                   | Not Detected      |
| o-Xylene                         | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| TNMOC ref. to Heptane (MW=100)   | 10                   | Not Detected     | 41                    | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 101       | 70-130           |
| 1,2-Dichloroethane-d4 | 108       | 70-130           |
| 4-Bromofluorobenzene  | 102       | 70-130           |

Client Sample ID: CCV

Lab ID#: 2104386-05A

## EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                    |
|--------------|---------|------------------------------------|
| File Name:   | p042102 | Date of Collection: NA             |
| Dil. Factor: | 1.00    | Date of Analysis: 4/21/21 10:25 AM |

| Compound                         | %Recovery |
|----------------------------------|-----------|
| Freon 12                         | 120       |
| Vinyl Chloride                   | 107       |
| Freon 11                         | 116       |
| Freon 113                        | 102       |
| 1,1-Dichloroethene               | 100       |
| 2-Propanol                       | 80        |
| Carbon Disulfide                 | 92        |
| Methylene Chloride               | 89        |
| Hexane                           | 90        |
| 1,1-Dichloroethane               | 97        |
| 2-Butanone (Methyl Ethyl Ketone) | 91        |
| Chloroform                       | 112       |
| 1,1,1-Trichloroethane            | 108       |
| Carbon Tetrachloride             | 112       |
| Benzene                          | 104       |
| 1,2-Dichloroethane               | 123       |
| Trichloroethene                  | 109       |
| 1,4-Dioxane                      | 99        |
| Toluene                          | 103       |
| 1,1,2-Trichloroethane            | 107       |
| Tetrachloroethene                | 117       |
| o-Xylene                         | 108       |
| TNMOC ref. to Heptane (MW=100)   | 100       |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 100       | 70-130        |
| 1,2-Dichloroethane-d4 | 108       | 70-130        |
| 4-Bromofluorobenzene  | 113       | 70-130        |



Client Sample ID: LCS

Lab ID#: 2104386-06A

## EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                    |
|--------------|---------|------------------------------------|
| File Name:   | p042103 | Date of Collection: NA             |
| Dil. Factor: | 1.00    | Date of Analysis: 4/21/21 10:54 AM |

| Compound                         | %Recovery  | Method Limits |
|----------------------------------|------------|---------------|
| Freon 12                         | 128        | 70-130        |
| Vinyl Chloride                   | 113        | 70-130        |
| Freon 11                         | 120        | 70-130        |
| Freon 113                        | 109        | 70-130        |
| 1,1-Dichloroethene               | 114        | 70-130        |
| 2-Propanol                       | 90         | 70-130        |
| Carbon Disulfide                 | 100        | 70-130        |
| Methylene Chloride               | 92         | 70-130        |
| Hexane                           | 94         | 70-130        |
| 1,1-Dichloroethane               | 102        | 70-130        |
| 2-Butanone (Methyl Ethyl Ketone) | 98         | 70-130        |
| Chloroform                       | 118        | 70-130        |
| 1,1,1-Trichloroethane            | 114        | 70-130        |
| Carbon Tetrachloride             | 121        | 70-130        |
| Benzene                          | 107        | 70-130        |
| 1,2-Dichloroethane               | 123        | 70-130        |
| Trichloroethene                  | 109        | 70-130        |
| 1,4-Dioxane                      | 96         | 70-130        |
| Toluene                          | 104        | 70-130        |
| 1,1,2-Trichloroethane            | 104        | 70-130        |
| Tetrachloroethene                | 117        | 70-130        |
| o-Xylene                         | 108        | 70-130        |
| TNMOC ref. to Heptane (MW=100)   | Not Spiked |               |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 99        | 70-130        |
| 1,2-Dichloroethane-d4 | 114       | 70-130        |
| 4-Bromofluorobenzene  | 112       | 70-130        |

Client Sample ID: LCSD

Lab ID#: 2104386-06AA

## EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                    |
|--------------|---------|------------------------------------|
| File Name:   | p042104 | Date of Collection: NA             |
| Dil. Factor: | 1.00    | Date of Analysis: 4/21/21 11:23 AM |

| Compound                         | %Recovery  | Method Limits |
|----------------------------------|------------|---------------|
| Freon 12                         | 122        | 70-130        |
| Vinyl Chloride                   | 113        | 70-130        |
| Freon 11                         | 117        | 70-130        |
| Freon 113                        | 103        | 70-130        |
| 1,1-Dichloroethene               | 110        | 70-130        |
| 2-Propanol                       | 86         | 70-130        |
| Carbon Disulfide                 | 94         | 70-130        |
| Methylene Chloride               | 90         | 70-130        |
| Hexane                           | 93         | 70-130        |
| 1,1-Dichloroethane               | 98         | 70-130        |
| 2-Butanone (Methyl Ethyl Ketone) | 95         | 70-130        |
| Chloroform                       | 113        | 70-130        |
| 1,1,1-Trichloroethane            | 109        | 70-130        |
| Carbon Tetrachloride             | 116        | 70-130        |
| Benzene                          | 106        | 70-130        |
| 1,2-Dichloroethane               | 122        | 70-130        |
| Trichloroethene                  | 109        | 70-130        |
| 1,4-Dioxane                      | 95         | 70-130        |
| Toluene                          | 101        | 70-130        |
| 1,1,2-Trichloroethane            | 107        | 70-130        |
| Tetrachloroethene                | 118        | 70-130        |
| o-Xylene                         | 110        | 70-130        |
| TNMOC ref. to Heptane (MW=100)   | Not Spiked |               |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 98        | 70-130        |
| 1,2-Dichloroethane-d4 | 107       | 70-130        |
| 4-Bromofluorobenzene  | 115       | 70-130        |

2104386

AIR CHAIN OF CUSTODY RECORD

DATE: 04/16/21  
PAGE: 1 OF 1

|   |                                  |   |                   |                                 |               |
|---|----------------------------------|---|-------------------|---------------------------------|---------------|
| LABORATORY CLIENT:<br>de maximis  |                                  | CLIENT PROJECT NAME / NUMBER:<br>Omega - OU1 SVE Monthly GAC Sampling |                   | P.O. NO.:                       |               |
| ADDRESS:<br>1322 Scott St., Suite 104   |                                  | PROJECT ADDRESS:<br>12520 Whittier Blvd.                              |                   | LAB CONTACT OR QUOTE NO.:       |               |
| CITY:<br>San Diego  | STATE:<br>CA                     | ZIP:<br>92108   | CITY:<br>Whittier | STATE:<br>CA                    | ZIP:<br>90602 |
| TEL:<br>(662) 756-8149  | EMAIL:<br>jdinello@demaximis.com | PROJECT CONTACT: Trent Henderson trenderson@jacobandthefirm.com       |                   | LAB USE ONLY<br>□ □ - □ □ □ □ □ |               |
| TURNS/ROUND TIME:<br><input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input checked="" type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS |                                  | SAMPLER(S) (NAME / SIGNATURE):<br>Khairul Azhar                       |                   | REQUESTED ANALYSES              |               |
| SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)<br><input checked="" type="checkbox"/> PEDD   |                                  |   |                   |                                 |               |
| SPECIAL INSTRUCTIONS:   |                                  |   |                   |                                 |               |

| LAB USE ONLY | SAMPLE ID             | FIELD ID / Point of Collection | Air Type   |             | Sampling Equipment Info |                     | Start Sampling Information |                   |                         |      | Stop Sampling Information |                         | TO-15 (TAL 2.3) |   |
|--------------|-----------------------|--------------------------------|------------|-------------|-------------------------|---------------------|----------------------------|-------------------|-------------------------|------|---------------------------|-------------------------|-----------------|---|
|              |                       |                                | (S) Indoor | (A) Ambient | Canister ID#            | Flow Controller ID# | Date                       | Time (24hr clock) | Canister Pressure (Psi) | Date | Time (24hr clock)         | Canister Pressure (Psi) |                 |   |
| 1            | OC_SVE_EFF_GAC_041621 | SP-EFF-GAC                     | SV         |             | 3022                    | 1L                  | 20135                      | 4/16/2021         | 0955                    | -28  | 4/16/2021                 | 1003                    | -5              | X |
| 2            | OC_SVE_MID_GAC_041621 | SP-MID-GAC                     | SV         |             | 142667                  | 1L                  | 22414                      | 4/16/2021         | 0957                    | -27  | 4/16/2021                 | 1002                    | -5              | X |
| 3            | OC_SVE_INF_GAC_041621 | SP-INF-GAC                     | SV         |             | 113082                  | 1L                  | 24584                      | 4/16/2021         | 0958                    | -27  | 4/16/2021                 | 1004                    | -4              | X |
| 4            |                       |                                |            |             |                         |                     |                            |                   |                         |      |                           |                         |                 |   |
| 5            |                       |                                |            |             |                         |                     |                            |                   |                         |      |                           |                         |                 |   |
| 6            |                       |                                |            |             |                         |                     |                            |                   |                         |      |                           |                         |                 |   |
| 7            |                       |                                |            |             |                         |                     |                            |                   |                         |      |                           |                         |                 |   |
| 8            |                       |                                |            |             |                         |                     |                            |                   |                         |      |                           |                         |                 |   |
| 9            |                       |                                |            |             |                         |                     |                            |                   |                         |      |                           |                         |                 |   |
| 10           |                       |                                |            |             |                         |                     |                            |                   |                         |      |                           |                         |                 |   |
| 11           |                       |                                |            |             |                         |                     |                            |                   |                         |      |                           |                         |                 |   |
| 12           |                       |                                |            |             |                         |                     |                            |                   |                         |      |                           |                         |                 |   |
| 13           |                       |                                |            |             |                         |                     |                            |                   |                         |      |                           |                         |                 |   |
| 14           |                       |                                |            |             |                         |                     |                            |                   |                         |      |                           |                         |                 |   |
| 15           |                       |                                |            |             |                         |                     |                            |                   |                         |      |                           |                         |                 |   |

|  |                  |               |
|--|------------------|---------------|
| Received By: (Signature)<br><i>[Signature]</i> | Date:<br>4-16-21 | Time:<br>0919 |
| Received By: (Signature)<br><i>[Signature]</i> | Date:            | Time:         |
| Received By: (Signature)                       | Date:            | Time:         |

5/25/2021

Ms. Jaime Dinello

DeMaximis, Inc

1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega - OU1 SVE Monthly Sampling

Project #:

Workorder #: 2105272

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 5/12/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kathleen Kaneko at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kathleen Kaneko

Project Manager

**WORK ORDER #: 2105272**

Work Order Summary

**CLIENT:** Ms. Jaime Dinello  
DeMaximis, Inc  
1340 Reynolds Ave, Suite 105  
Irvine, CA 92614

**BILL TO:** Mr. Tom Dorsey  
Omega Chemical Site Environmental  
Remediation Trust  
1322 Scott St.  
Suite 104

**PHONE:** 949.679.9290

**P.O. #**

**FAX:** 949.679.9078

**PROJECT #** Omega - OU1 SVE Monthly Sampling

**DATE RECEIVED:** 05/12/2021

**CONTACT:** Kathleen Kaneko

**DATE COMPLETED:** 05/24/2021

| <u>FRACTION #</u> | <u>NAME</u>           | <u>TEST</u> | <u>RECEIPT<br/>VAC./PRES.</u> | <u>FINAL<br/>PRESSURE</u> |
|-------------------|-----------------------|-------------|-------------------------------|---------------------------|
| 01A               | OC_SVE_EFF_GAC_050721 | TO-15       | 5.1 "Hg                       | 9.9 psi                   |
| 02A               | OC_SVE_MID_GAC_050721 | TO-15       | 5.5 "Hg                       | 10 psi                    |
| 03A               | OC_SVE_INF_GAC_050721 | TO-15       | 5.7 "Hg                       | 10 psi                    |
| 04A               | Lab Blank             | TO-15       | NA                            | NA                        |
| 05A               | CCV                   | TO-15       | NA                            | NA                        |
| 06A               | LCS                   | TO-15       | NA                            | NA                        |
| 06AA              | LCSD                  | TO-15       | NA                            | NA                        |

CERTIFIED BY:



Technical Director

DATE: 05/24/21

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT NELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.

Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

*This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.*

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

**LABORATORY NARRATIVE**  
**EPA Method TO-15**  
**DeMaximis, Inc**  
**Workorder# 2105272**

Three 1 Liter Silco Canister samples were received on May 12, 2021. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

**Receiving Notes**

There were no receiving discrepancies.

**Analytical Notes**

A single point calibration for TNMOC referenced to Heptane was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

The TNMOC concentration was calculated by taking the total area counts in the sample and quantitating the area based on the response factor of Heptane.

**Definition of Data Qualifying Flags**

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

## Summary of Detected Compounds EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: OC\_SVE\_EFF\_GAC\_050721**

**Lab ID#: 2105272-01A**

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 11                         | 1.0                  | 1.3              | 5.7                   | 7.2               |
| 1,1-Dichloroethene               | 1.0                  | 1.2              | 4.0                   | 5.0               |
| 2-Butanone (Methyl Ethyl Ketone) | 4.0                  | 19               | 12                    | 57                |
| Trichloroethene                  | 1.0                  | 1.3              | 5.4                   | 7.0               |
| Tetrachloroethene                | 1.0                  | 33               | 6.8                   | 220               |
| TNMOC ref. to Heptane (MW=100)   | 20                   | 980              | 83                    | 4000              |

**Client Sample ID: OC\_SVE\_MID\_GAC\_050721**

**Lab ID#: 2105272-02A**

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 11                         | 1.0                  | 1.3              | 5.8                   | 7.4               |
| Freon 113                        | 1.0                  | 6.6              | 7.9                   | 51                |
| 1,1-Dichloroethene               | 1.0                  | 1.7              | 4.1                   | 6.7               |
| 2-Butanone (Methyl Ethyl Ketone) | 4.1                  | 7.0              | 12                    | 21                |
| 1,1,1-Trichloroethane            | 1.0                  | 3.8              | 5.6                   | 21                |
| Tetrachloroethene                | 1.0                  | 3.8              | 7.0                   | 26                |

**Client Sample ID: OC\_SVE\_INF\_GAC\_050721**

**Lab ID#: 2105272-03A**

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 11                         | 1.0                  | 1.2              | 5.8                   | 7.0               |
| Freon 113                        | 1.0                  | 4.9              | 7.9                   | 38                |
| 1,1-Dichloroethene               | 1.0                  | 1.8              | 4.1                   | 7.1               |
| 2-Propanol                       | 4.1                  | 11               | 10                    | 27                |
| 2-Butanone (Methyl Ethyl Ketone) | 4.1                  | 15               | 12                    | 45                |
| 1,1,1-Trichloroethane            | 1.0                  | 2.3              | 5.6                   | 12                |
| Trichloroethene                  | 1.0                  | 3.8              | 5.6                   | 20                |
| 1,4-Dioxane                      | 4.1                  | 4.7              | 15                    | 17                |
| Tetrachloroethene                | 1.0                  | 57               | 7.0                   | 390               |
| TNMOC ref. to Heptane (MW=100)   | 21                   | 270              | 85                    | 1100              |



## Air Toxics

Client Sample ID: OC\_SVE\_EFF\_GAC\_050721

Lab ID#: 2105272-01A

### EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 3052223 | Date of Collection: | 5/7/21 9:45:00 AM |
| Dil. Factor: | 2.02    | Date of Analysis:   | 5/23/21 12:41 AM  |

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12                         | 1.0                  | Not Detected     | 5.0                   | Not Detected      |
| Vinyl Chloride                   | 1.0                  | Not Detected     | 2.6                   | Not Detected      |
| Freon 11                         | 1.0                  | 1.3              | 5.7                   | 7.2               |
| Freon 113                        | 1.0                  | Not Detected     | 7.7                   | Not Detected      |
| 1,1-Dichloroethene               | 1.0                  | 1.2              | 4.0                   | 5.0               |
| 2-Propanol                       | 4.0                  | Not Detected     | 9.9                   | Not Detected      |
| Carbon Disulfide                 | 4.0                  | Not Detected     | 12                    | Not Detected      |
| Methylene Chloride               | 10                   | Not Detected     | 35                    | Not Detected      |
| Hexane                           | 1.0                  | Not Detected     | 3.6                   | Not Detected      |
| 1,1-Dichloroethane               | 1.0                  | Not Detected     | 4.1                   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 4.0                  | 19               | 12                    | 57                |
| Chloroform                       | 1.0                  | Not Detected     | 4.9                   | Not Detected      |
| 1,1,1-Trichloroethane            | 1.0                  | Not Detected     | 5.5                   | Not Detected      |
| Carbon Tetrachloride             | 1.0                  | Not Detected     | 6.4                   | Not Detected      |
| Benzene                          | 1.0                  | Not Detected     | 3.2                   | Not Detected      |
| 1,2-Dichloroethane               | 1.0                  | Not Detected     | 4.1                   | Not Detected      |
| Trichloroethene                  | 1.0                  | 1.3              | 5.4                   | 7.0               |
| 1,4-Dioxane                      | 4.0                  | Not Detected     | 14                    | Not Detected      |
| Toluene                          | 1.0                  | Not Detected     | 3.8                   | Not Detected      |
| 1,1,2-Trichloroethane            | 1.0                  | Not Detected     | 5.5                   | Not Detected      |
| Tetrachloroethene                | 1.0                  | 33               | 6.8                   | 220               |
| o-Xylene                         | 1.0                  | Not Detected     | 4.4                   | Not Detected      |
| TNMOC ref. to Heptane (MW=100)   | 20                   | 980              | 83                    | 4000              |

#### Container Type: 1 Liter Silco Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 97        | 70-130           |
| 1,2-Dichloroethane-d4 | 104       | 70-130           |
| 4-Bromofluorobenzene  | 106       | 70-130           |





## Air Toxics

Client Sample ID: OC\_SVE\_MID\_GAC\_050721

Lab ID#: 2105272-02A

### EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 3052224 | Date of Collection: | 5/7/21 9:50:00 AM |
| Dil. Factor: | 2.06    | Date of Analysis:   | 5/23/21 01:10 AM  |

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12                         | 1.0                  | Not Detected     | 5.1                   | Not Detected      |
| Vinyl Chloride                   | 1.0                  | Not Detected     | 2.6                   | Not Detected      |
| Freon 11                         | 1.0                  | 1.3              | 5.8                   | 7.4               |
| Freon 113                        | 1.0                  | 6.6              | 7.9                   | 51                |
| 1,1-Dichloroethene               | 1.0                  | 1.7              | 4.1                   | 6.7               |
| 2-Propanol                       | 4.1                  | Not Detected     | 10                    | Not Detected      |
| Carbon Disulfide                 | 4.1                  | Not Detected     | 13                    | Not Detected      |
| Methylene Chloride               | 10                   | Not Detected     | 36                    | Not Detected      |
| Hexane                           | 1.0                  | Not Detected     | 3.6                   | Not Detected      |
| 1,1-Dichloroethane               | 1.0                  | Not Detected     | 4.2                   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 4.1                  | 7.0              | 12                    | 21                |
| Chloroform                       | 1.0                  | Not Detected     | 5.0                   | Not Detected      |
| 1,1,1-Trichloroethane            | 1.0                  | 3.8              | 5.6                   | 21                |
| Carbon Tetrachloride             | 1.0                  | Not Detected     | 6.5                   | Not Detected      |
| Benzene                          | 1.0                  | Not Detected     | 3.3                   | Not Detected      |
| 1,2-Dichloroethane               | 1.0                  | Not Detected     | 4.2                   | Not Detected      |
| Trichloroethene                  | 1.0                  | Not Detected     | 5.5                   | Not Detected      |
| 1,4-Dioxane                      | 4.1                  | Not Detected     | 15                    | Not Detected      |
| Toluene                          | 1.0                  | Not Detected     | 3.9                   | Not Detected      |
| 1,1,2-Trichloroethane            | 1.0                  | Not Detected     | 5.6                   | Not Detected      |
| Tetrachloroethene                | 1.0                  | 3.8              | 7.0                   | 26                |
| o-Xylene                         | 1.0                  | Not Detected     | 4.5                   | Not Detected      |
| TNMOC ref. to Heptane (MW=100)   | 21                   | Not Detected     | 84                    | Not Detected      |

#### Container Type: 1 Liter Silco Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 98        | 70-130           |
| 1,2-Dichloroethane-d4 | 104       | 70-130           |
| 4-Bromofluorobenzene  | 105       | 70-130           |



## Air Toxics

Client Sample ID: OC\_SVE\_INF\_GAC\_050721

Lab ID#: 2105272-03A

### EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 3052225 | Date of Collection: | 5/7/21 9:55:00 AM |
| Dil. Factor: | 2.07    | Date of Analysis:   | 5/23/21 01:39 AM  |

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12                         | 1.0                  | Not Detected     | 5.1                   | Not Detected      |
| Vinyl Chloride                   | 1.0                  | Not Detected     | 2.6                   | Not Detected      |
| Freon 11                         | 1.0                  | 1.2              | 5.8                   | 7.0               |
| Freon 113                        | 1.0                  | 4.9              | 7.9                   | 38                |
| 1,1-Dichloroethene               | 1.0                  | 1.8              | 4.1                   | 7.1               |
| 2-Propanol                       | 4.1                  | 11               | 10                    | 27                |
| Carbon Disulfide                 | 4.1                  | Not Detected     | 13                    | Not Detected      |
| Methylene Chloride               | 10                   | Not Detected     | 36                    | Not Detected      |
| Hexane                           | 1.0                  | Not Detected     | 3.6                   | Not Detected      |
| 1,1-Dichloroethane               | 1.0                  | Not Detected     | 4.2                   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 4.1                  | 15               | 12                    | 45                |
| Chloroform                       | 1.0                  | Not Detected     | 5.0                   | Not Detected      |
| 1,1,1-Trichloroethane            | 1.0                  | 2.3              | 5.6                   | 12                |
| Carbon Tetrachloride             | 1.0                  | Not Detected     | 6.5                   | Not Detected      |
| Benzene                          | 1.0                  | Not Detected     | 3.3                   | Not Detected      |
| 1,2-Dichloroethane               | 1.0                  | Not Detected     | 4.2                   | Not Detected      |
| Trichloroethene                  | 1.0                  | 3.8              | 5.6                   | 20                |
| 1,4-Dioxane                      | 4.1                  | 4.7              | 15                    | 17                |
| Toluene                          | 1.0                  | Not Detected     | 3.9                   | Not Detected      |
| 1,1,2-Trichloroethane            | 1.0                  | Not Detected     | 5.6                   | Not Detected      |
| Tetrachloroethene                | 1.0                  | 57               | 7.0                   | 390               |
| o-Xylene                         | 1.0                  | Not Detected     | 4.5                   | Not Detected      |
| TNMOC ref. to Heptane (MW=100)   | 21                   | 270              | 85                    | 1100              |

#### Container Type: 1 Liter Silco Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 99        | 70-130           |
| 1,2-Dichloroethane-d4 | 107       | 70-130           |
| 4-Bromofluorobenzene  | 104       | 70-130           |

Client Sample ID: Lab Blank

Lab ID#: 2105272-04A

EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                    |
|--------------|---------|------------------------------------|
| File Name:   | 3052205 | Date of Collection: NA             |
| Dil. Factor: | 1.00    | Date of Analysis: 5/22/21 12:13 PM |

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12                         | 0.50                 | Not Detected     | 2.5                   | Not Detected      |
| Vinyl Chloride                   | 0.50                 | Not Detected     | 1.3                   | Not Detected      |
| Freon 11                         | 0.50                 | Not Detected     | 2.8                   | Not Detected      |
| Freon 113                        | 0.50                 | Not Detected     | 3.8                   | Not Detected      |
| 1,1-Dichloroethene               | 0.50                 | Not Detected     | 2.0                   | Not Detected      |
| 2-Propanol                       | 2.0                  | Not Detected     | 4.9                   | Not Detected      |
| Carbon Disulfide                 | 2.0                  | Not Detected     | 6.2                   | Not Detected      |
| Methylene Chloride               | 5.0                  | Not Detected     | 17                    | Not Detected      |
| Hexane                           | 0.50                 | Not Detected     | 1.8                   | Not Detected      |
| 1,1-Dichloroethane               | 0.50                 | Not Detected     | 2.0                   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 2.0                  | Not Detected     | 5.9                   | Not Detected      |
| Chloroform                       | 0.50                 | Not Detected     | 2.4                   | Not Detected      |
| 1,1,1-Trichloroethane            | 0.50                 | Not Detected     | 2.7                   | Not Detected      |
| Carbon Tetrachloride             | 0.50                 | Not Detected     | 3.1                   | Not Detected      |
| Benzene                          | 0.50                 | Not Detected     | 1.6                   | Not Detected      |
| 1,2-Dichloroethane               | 0.50                 | Not Detected     | 2.0                   | Not Detected      |
| Trichloroethene                  | 0.50                 | Not Detected     | 2.7                   | Not Detected      |
| 1,4-Dioxane                      | 2.0                  | Not Detected     | 7.2                   | Not Detected      |
| Toluene                          | 0.50                 | Not Detected     | 1.9                   | Not Detected      |
| 1,1,2-Trichloroethane            | 0.50                 | Not Detected     | 2.7                   | Not Detected      |
| Tetrachloroethene                | 0.50                 | Not Detected     | 3.4                   | Not Detected      |
| o-Xylene                         | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| TNMOC ref. to Heptane (MW=100)   | 10                   | Not Detected     | 41                    | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 98        | 70-130           |
| 1,2-Dichloroethane-d4 | 100       | 70-130           |
| 4-Bromofluorobenzene  | 103       | 70-130           |

Client Sample ID: CCV

Lab ID#: 2105272-05A

## EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                    |
|--------------|---------|------------------------------------|
| File Name:   | 3052202 | Date of Collection: NA             |
| Dil. Factor: | 1.00    | Date of Analysis: 5/22/21 10:10 AM |

| Compound                         | %Recovery |
|----------------------------------|-----------|
| Freon 12                         | 112       |
| Vinyl Chloride                   | 112       |
| Freon 11                         | 114       |
| Freon 113                        | 112       |
| 1,1-Dichloroethene               | 109       |
| 2-Propanol                       | 99        |
| Carbon Disulfide                 | 103       |
| Methylene Chloride               | 95        |
| Hexane                           | 98        |
| 1,1-Dichloroethane               | 102       |
| 2-Butanone (Methyl Ethyl Ketone) | 100       |
| Chloroform                       | 108       |
| 1,1,1-Trichloroethane            | 108       |
| Carbon Tetrachloride             | 114       |
| Benzene                          | 98        |
| 1,2-Dichloroethane               | 112       |
| Trichloroethene                  | 104       |
| 1,4-Dioxane                      | 102       |
| Toluene                          | 97        |
| 1,1,2-Trichloroethane            | 105       |
| Tetrachloroethene                | 110       |
| o-Xylene                         | 103       |
| TNMOC ref. to Heptane (MW=100)   | 100       |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 99        | 70-130        |
| 1,2-Dichloroethane-d4 | 101       | 70-130        |
| 4-Bromofluorobenzene  | 103       | 70-130        |

Client Sample ID: LCS

Lab ID#: 2105272-06A

## EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                    |
|--------------|---------|------------------------------------|
| File Name:   | 3052203 | Date of Collection: NA             |
| Dil. Factor: | 1.00    | Date of Analysis: 5/22/21 10:37 AM |

| Compound                         | %Recovery  | Method Limits |
|----------------------------------|------------|---------------|
| Freon 12                         | 111        | 70-130        |
| Vinyl Chloride                   | 109        | 70-130        |
| Freon 11                         | 112        | 70-130        |
| Freon 113                        | 113        | 70-130        |
| 1,1-Dichloroethene               | 112        | 70-130        |
| 2-Propanol                       | 99         | 70-130        |
| Carbon Disulfide                 | 103        | 70-130        |
| Methylene Chloride               | 92         | 70-130        |
| Hexane                           | 100        | 70-130        |
| 1,1-Dichloroethane               | 101        | 70-130        |
| 2-Butanone (Methyl Ethyl Ketone) | 100        | 70-130        |
| Chloroform                       | 108        | 70-130        |
| 1,1,1-Trichloroethane            | 108        | 70-130        |
| Carbon Tetrachloride             | 112        | 70-130        |
| Benzene                          | 98         | 70-130        |
| 1,2-Dichloroethane               | 110        | 70-130        |
| Trichloroethene                  | 104        | 70-130        |
| 1,4-Dioxane                      | 102        | 70-130        |
| Toluene                          | 96         | 70-130        |
| 1,1,2-Trichloroethane            | 104        | 70-130        |
| Tetrachloroethene                | 110        | 70-130        |
| o-Xylene                         | 102        | 70-130        |
| TNMOC ref. to Heptane (MW=100)   | Not Spiked |               |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 99        | 70-130        |
| 1,2-Dichloroethane-d4 | 101       | 70-130        |
| 4-Bromofluorobenzene  | 104       | 70-130        |

Client Sample ID: LCSD

Lab ID#: 2105272-06AA

## EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                    |
|--------------|---------|------------------------------------|
| File Name:   | 3052204 | Date of Collection: NA             |
| Dil. Factor: | 1.00    | Date of Analysis: 5/22/21 11:05 AM |

| Compound                         | %Recovery  | Method Limits |
|----------------------------------|------------|---------------|
| Freon 12                         | 110        | 70-130        |
| Vinyl Chloride                   | 109        | 70-130        |
| Freon 11                         | 111        | 70-130        |
| Freon 113                        | 113        | 70-130        |
| 1,1-Dichloroethene               | 113        | 70-130        |
| 2-Propanol                       | 99         | 70-130        |
| Carbon Disulfide                 | 105        | 70-130        |
| Methylene Chloride               | 92         | 70-130        |
| Hexane                           | 98         | 70-130        |
| 1,1-Dichloroethane               | 102        | 70-130        |
| 2-Butanone (Methyl Ethyl Ketone) | 99         | 70-130        |
| Chloroform                       | 106        | 70-130        |
| 1,1,1-Trichloroethane            | 106        | 70-130        |
| Carbon Tetrachloride             | 111        | 70-130        |
| Benzene                          | 98         | 70-130        |
| 1,2-Dichloroethane               | 108        | 70-130        |
| Trichloroethene                  | 103        | 70-130        |
| 1,4-Dioxane                      | 102        | 70-130        |
| Toluene                          | 96         | 70-130        |
| 1,1,2-Trichloroethane            | 104        | 70-130        |
| Tetrachloroethene                | 110        | 70-130        |
| o-Xylene                         | 101        | 70-130        |
| TNMOC ref. to Heptane (MW=100)   | Not Spiked |               |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 98        | 70-130        |
| 1,2-Dichloroethane-d4 | 100       | 70-130        |
| 4-Bromofluorobenzene  | 105       | 70-130        |

2105272

**AIR CHAIN OF CUSTODY RECORD**

DATE: 05/07/21  
PAGE: 1 OF 1

LABORATORY CLIENT

de maximis

CLIENT PROJECT NAME / NUMBER  
Omega - OU1 SVE Monthly GAC Sampling

PO NO:

ADDRESS:  
1322 Scott St., Suite 104

PROJECT ADDRESS  
12520 Whittier Blvd.

LAB CONTACT OR QUOTE NO:

CITY: San Diego

STATE: CA

ZIP: 92106

CITY: Whittier

STATE: CA

ZIP: 90602

TEL: (562) 756-8149

EMAIL: jldine@demaximis.com

PROJECT CONTACT: Trent Henderson thenderson@jacobandhelfer.com

TURNAROUND TIME

SAMPLES: (NAME / SIGNATURE)

LAB USE ONLY

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

Standard

REQUESTED ANALYSES

☐ EDD

SPECIAL INSTRUCTIONS

| Lab Use | SAMPLE ID             | FIELD ID / Point of Collection | Air Type<br>(1) Indoor (SV) Soil Vap (2) Ambient | Sampling Equipment Info<br>Canister ID# | Canister Size<br>8L or 1L | Flow Controller ID# | Start Sampling Information<br>Date | Time (24hr clock) | Canister Pressure (Tkg) | Stop Sampling Information<br>Date | Time (24hr clock) | Canister Pressure (Tkg) | TO-15 (TAL 2.3) |
|---------|-----------------------|--------------------------------|--|---|---------------------------|---------------------|------------------------------------|-------------------|-------------------------|-----------------------------------|-------------------|-------------------------|-----------------|
| 014     | OC_SVE_EFF_GAC_050721 | SP-EFF-GAC                     | SV   | LC046                                   | 1L                        | 25343               | 5/7/2021                           | 0945              | -29                     | 5/7/2021                          | 0945              | -5                      | X               |
| 024     | OC_SVE_MID_GAC_050721 | SP-MID-GAC                     | SV   | LC2204                                  | 1L                        | 30763               | 5/7/2021                           | 0950              | -30                     | 5/7/2021                          | 0950              | -5                      | X               |
| 034     | OC_SVE_INF_GAC_050721 | SP-INF-GAC                     | SV   | LC1178                                  | 1L                        | 24570               | 5/7/2021                           | 0955              | -27.5                   | 5/7/2021                          | 0955              | -5                      | X               |
| 4       |                       |                                |  |   |                           |                     |                                    |                   |                         |                                   |                   |                         |                 |
| 5       |                       |                                |  |   |                           |                     |                                    |                   |                         |                                   |                   |                         |                 |
| 6       |                       |                                |  |   |                           |                     |                                    |                   |                         |                                   |                   |                         |                 |
| 7       |                       |                                |  |   |                           |                     |                                    |                   |                         |                                   |                   |                         |                 |
| 8       |                       |                                |  |   |                           |                     |                                    |                   |                         |                                   |                   |                         |                 |
| 9       |                       |                                |  |   |                           |                     |                                    |                   |                         |                                   |                   |                         |                 |
| 10      |                       |                                |  |   |                           |                     |                                    |                   |                         |                                   |                   |                         |                 |
| 11      |                       |                                |  |   |                           |                     |                                    |                   |                         |                                   |                   |                         |                 |
| 12      |                       |                                |  |   |                           |                     |                                    |                   |                         |                                   |                   |                         |                 |
| 13      |                       |                                |  |   |                           |                     |                                    |                   |                         |                                   |                   |                         |                 |
| 14      |                       |                                |  |   |                           |                     |                                    |                   |                         |                                   |                   |                         |                 |
| 15      |                       |                                |  |   |                           |                     |                                    |                   |                         |                                   |                   |                         |                 |

Relinquished by (Signature)

*Forces*

Received by (Signature)

*Forces*

Date

5/10/21 1352

Relinquished by (Signature)

Received by (Signature)

Date

Time

6/14/2021

Ms. Jaime Dinello

DeMaximis, Inc

1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega - OU1 SVE Monthly GAC Sampling

Project #:

Workorder #: 2106174

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 6/7/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kathleen Kaneko at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kathleen Kaneko

Project Manager



**WORK ORDER #: 2106174**

Work Order Summary

|                        |   |                  |   |
|------------------------|---|------------------|---|
| <b>CLIENT:</b>         | Ms. Jaime Dinello<br>DeMaximis, Inc<br>1340 Reynolds Ave, Suite 105<br>Irvine, CA 92614 | <b>BILL TO:</b>  | Mr. Tom Dorsey<br>Omega Chemical Site Environmental<br>Remediation Trust<br>1322 Scott St.<br>Suite 104 |
| <b>PHONE:</b>          | 949.679.9290  | <b>P.O. #</b>    |   |
| <b>FAX:</b>            | 949.679.9078  | <b>PROJECT #</b> | Omega - OU1 SVE Monthly GAC   |
| <b>DATE RECEIVED:</b>  | 06/07/2021  | <b>CONTACT:</b>  | Sampling<br>Kathleen Kaneko   |
| <b>DATE COMPLETED:</b> | 06/14/2021  |                  |   |

| <u>FRACTION #</u> | <u>NAME</u>           | <u>TEST</u> | <u>RECEIPT<br/>VAC./PRES.</u> | <u>FINAL<br/>PRESSURE</u> |
|-------------------|-----------------------|-------------|-------------------------------|---------------------------|
| 01A               | OC_SVE_EFF_GAC_060421 | TO-15       | 4.0 "Hg                       | 10 psi                    |
| 02A               | OC_SVE_MID_GAC_060421 | TO-15       | 5.0 "Hg                       | 10 psi                    |
| 03A               | OC_SVE_INF_GAC_060421 | TO-15       | 5.0 "Hg                       | 10 psi                    |
| 04A               | Lab Blank             | TO-15       | NA                            | NA                        |
| 05A               | CCV                   | TO-15       | NA                            | NA                        |
| 06A               | LCS                   | TO-15       | NA                            | NA                        |
| 06AA              | LCSD                  | TO-15       | NA                            | NA                        |

CERTIFIED BY:



Technical Director

DATE: 06/14/21

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT NELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.

Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE**  
**EPA Method TO-15**  
**DeMaximis, Inc**  
**Workorder# 2106174**

Three 1 Liter Summa Canister samples were received on June 07, 2021. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

**Receiving Notes**

There were no receiving discrepancies.

**Analytical Notes**

The NMOC (Non-Methane Organic Compounds) concentration was calculated by taking the total area counts in the sample and quantitating the area based on the response factor of Heptane.

**Definition of Data Qualifying Flags**

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

## Summary of Detected Compounds EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: OC\_SVE\_EFF\_GAC\_060421**

**Lab ID#: 2106174-01A**

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 11                         | 0.97                 | 1.0              | 5.4                   | 5.7               |
| Freon 113                        | 0.97                 | 0.98             | 7.4                   | 7.5               |
| 1,1-Dichloroethene               | 0.97                 | 1.3              | 3.8                   | 5.2               |
| 2-Propanol                       | 3.9                  | 7.4              | 9.5                   | 18                |
| Carbon Disulfide                 | 3.9                  | 4.9              | 12                    | 15                |
| 2-Butanone (Methyl Ethyl Ketone) | 3.9                  | 14               | 11                    | 40                |
| Tetrachloroethene                | 0.97                 | 17               | 6.6                   | 110               |
| TNMOC ref. to Heptane (MW=100)   | 19                   | 170              | 79                    | 700               |

**Client Sample ID: OC\_SVE\_MID\_GAC\_060421**

**Lab ID#: 2106174-02A**

| Compound                       | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|--------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 113                      | 1.0                  | 5.7              | 7.7                   | 44                |
| 1,1-Dichloroethene             | 1.0                  | 1.4              | 4.0                   | 5.6               |
| 2-Propanol                     | 4.0                  | 17               | 9.9                   | 42                |
| 1,1,1-Trichloroethane          | 1.0                  | 3.3              | 5.5                   | 18                |
| Trichloroethene                | 1.0                  | 1.2              | 5.4                   | 6.5               |
| Tetrachloroethene              | 1.0                  | 2.0              | 6.8                   | 14                |
| TNMOC ref. to Heptane (MW=100) | 20                   | 37               | 83                    | 150               |

**Client Sample ID: OC\_SVE\_INF\_GAC\_060421**

**Lab ID#: 2106174-03A**

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 113                        | 1.0                  | 4.5              | 7.7                   | 35                |
| 1,1-Dichloroethene               | 1.0                  | 1.2              | 4.0                   | 4.8               |
| 2-Propanol                       | 4.0                  | 4.2              | 9.9                   | 10                |
| 2-Butanone (Methyl Ethyl Ketone) | 4.0                  | 7.2              | 12                    | 21                |
| 1,1,1-Trichloroethane            | 1.0                  | 2.5              | 5.5                   | 14                |
| Trichloroethene                  | 1.0                  | 3.6              | 5.4                   | 19                |
| Tetrachloroethene                | 1.0                  | 58               | 6.8                   | 400               |
| TNMOC ref. to Heptane (MW=100)   | 20                   | 240              | 83                    | 980               |

**Summary of Detected Compounds**  
**EPA METHOD TO-15 GC/MS FULL SCAN**

**Client Sample ID: OC\_SVE\_INF\_GAC\_060421**

**Lab ID#: 2106174-03A**



## Air Toxics

Client Sample ID: OC\_SVE\_EFF\_GAC\_060421

Lab ID#: 2106174-01A

### EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | a061124 | Date of Collection: | 6/4/21 8:54:00 AM |
| Dil. Factor: | 1.94    | Date of Analysis:   | 6/12/21 12:17 AM  |

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12                         | 0.97                 | Not Detected     | 4.8                   | Not Detected      |
| Vinyl Chloride                   | 0.97                 | Not Detected     | 2.5                   | Not Detected      |
| Freon 11                         | 0.97                 | 1.0              | 5.4                   | 5.7               |
| Freon 113                        | 0.97                 | 0.98             | 7.4                   | 7.5               |
| 1,1-Dichloroethene               | 0.97                 | 1.3              | 3.8                   | 5.2               |
| 2-Propanol                       | 3.9                  | 7.4              | 9.5                   | 18                |
| Carbon Disulfide                 | 3.9                  | 4.9              | 12                    | 15                |
| Methylene Chloride               | 9.7                  | Not Detected     | 34                    | Not Detected      |
| Hexane                           | 0.97                 | Not Detected     | 3.4                   | Not Detected      |
| 1,1-Dichloroethane               | 0.97                 | Not Detected     | 3.9                   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 3.9                  | 14               | 11                    | 40                |
| Chloroform                       | 0.97                 | Not Detected     | 4.7                   | Not Detected      |
| 1,1,1-Trichloroethane            | 0.97                 | Not Detected     | 5.3                   | Not Detected      |
| Carbon Tetrachloride             | 0.97                 | Not Detected     | 6.1                   | Not Detected      |
| Benzene                          | 0.97                 | Not Detected     | 3.1                   | Not Detected      |
| 1,2-Dichloroethane               | 0.97                 | Not Detected     | 3.9                   | Not Detected      |
| Trichloroethene                  | 0.97                 | Not Detected     | 5.2                   | Not Detected      |
| 1,4-Dioxane                      | 3.9                  | Not Detected     | 14                    | Not Detected      |
| Toluene                          | 0.97                 | Not Detected     | 3.6                   | Not Detected      |
| 1,1,2-Trichloroethane            | 0.97                 | Not Detected     | 5.3                   | Not Detected      |
| Tetrachloroethene                | 0.97                 | 17               | 6.6                   | 110               |
| o-Xylene                         | 0.97                 | Not Detected     | 4.2                   | Not Detected      |
| TNMOC ref. to Heptane (MW=100)   | 19                   | 170              | 79                    | 700               |

#### Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 110       | 70-130           |
| 1,2-Dichloroethane-d4 | 96        | 70-130           |
| 4-Bromofluorobenzene  | 96        | 70-130           |



## Air Toxics

Client Sample ID: OC\_SVE\_MID\_GAC\_060421

Lab ID#: 2106174-02A

### EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | a061125 | Date of Collection: | 6/4/21 8:54:00 AM |
| Dil. Factor: | 2.02    | Date of Analysis:   | 6/12/21 12:43 AM  |

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12                         | 1.0                  | Not Detected     | 5.0                   | Not Detected      |
| Vinyl Chloride                   | 1.0                  | Not Detected     | 2.6                   | Not Detected      |
| Freon 11                         | 1.0                  | Not Detected     | 5.7                   | Not Detected      |
| Freon 113                        | 1.0                  | 5.7              | 7.7                   | 44                |
| 1,1-Dichloroethene               | 1.0                  | 1.4              | 4.0                   | 5.6               |
| 2-Propanol                       | 4.0                  | 17               | 9.9                   | 42                |
| Carbon Disulfide                 | 4.0                  | Not Detected     | 12                    | Not Detected      |
| Methylene Chloride               | 10                   | Not Detected     | 35                    | Not Detected      |
| Hexane                           | 1.0                  | Not Detected     | 3.6                   | Not Detected      |
| 1,1-Dichloroethane               | 1.0                  | Not Detected     | 4.1                   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 4.0                  | Not Detected     | 12                    | Not Detected      |
| Chloroform                       | 1.0                  | Not Detected     | 4.9                   | Not Detected      |
| 1,1,1-Trichloroethane            | 1.0                  | 3.3              | 5.5                   | 18                |
| Carbon Tetrachloride             | 1.0                  | Not Detected     | 6.4                   | Not Detected      |
| Benzene                          | 1.0                  | Not Detected     | 3.2                   | Not Detected      |
| 1,2-Dichloroethane               | 1.0                  | Not Detected     | 4.1                   | Not Detected      |
| Trichloroethene                  | 1.0                  | 1.2              | 5.4                   | 6.5               |
| 1,4-Dioxane                      | 4.0                  | Not Detected     | 14                    | Not Detected      |
| Toluene                          | 1.0                  | Not Detected     | 3.8                   | Not Detected      |
| 1,1,2-Trichloroethane            | 1.0                  | Not Detected     | 5.5                   | Not Detected      |
| Tetrachloroethene                | 1.0                  | 2.0              | 6.8                   | 14                |
| o-Xylene                         | 1.0                  | Not Detected     | 4.4                   | Not Detected      |
| TNMOC ref. to Heptane (MW=100)   | 20                   | 37               | 83                    | 150               |

#### Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 109       | 70-130           |
| 1,2-Dichloroethane-d4 | 92        | 70-130           |
| 4-Bromofluorobenzene  | 92        | 70-130           |



## Air Toxics

Client Sample ID: OC\_SVE\_INF\_GAC\_060421

Lab ID#: 2106174-03A

### EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | a061126 | Date of Collection: | 6/4/21 8:55:00 AM |
| Dil. Factor: | 2.02    | Date of Analysis:   | 6/12/21 01:10 AM  |

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12                         | 1.0                  | Not Detected     | 5.0                   | Not Detected      |
| Vinyl Chloride                   | 1.0                  | Not Detected     | 2.6                   | Not Detected      |
| Freon 11                         | 1.0                  | Not Detected     | 5.7                   | Not Detected      |
| Freon 113                        | 1.0                  | 4.5              | 7.7                   | 35                |
| 1,1-Dichloroethene               | 1.0                  | 1.2              | 4.0                   | 4.8               |
| 2-Propanol                       | 4.0                  | 4.2              | 9.9                   | 10                |
| Carbon Disulfide                 | 4.0                  | Not Detected     | 12                    | Not Detected      |
| Methylene Chloride               | 10                   | Not Detected     | 35                    | Not Detected      |
| Hexane                           | 1.0                  | Not Detected     | 3.6                   | Not Detected      |
| 1,1-Dichloroethane               | 1.0                  | Not Detected     | 4.1                   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 4.0                  | 7.2              | 12                    | 21                |
| Chloroform                       | 1.0                  | Not Detected     | 4.9                   | Not Detected      |
| 1,1,1-Trichloroethane            | 1.0                  | 2.5              | 5.5                   | 14                |
| Carbon Tetrachloride             | 1.0                  | Not Detected     | 6.4                   | Not Detected      |
| Benzene                          | 1.0                  | Not Detected     | 3.2                   | Not Detected      |
| 1,2-Dichloroethane               | 1.0                  | Not Detected     | 4.1                   | Not Detected      |
| Trichloroethene                  | 1.0                  | 3.6              | 5.4                   | 19                |
| 1,4-Dioxane                      | 4.0                  | Not Detected     | 14                    | Not Detected      |
| Toluene                          | 1.0                  | Not Detected     | 3.8                   | Not Detected      |
| 1,1,2-Trichloroethane            | 1.0                  | Not Detected     | 5.5                   | Not Detected      |
| Tetrachloroethene                | 1.0                  | 58               | 6.8                   | 400               |
| o-Xylene                         | 1.0                  | Not Detected     | 4.4                   | Not Detected      |
| TNMOC ref. to Heptane (MW=100)   | 20                   | 240              | 83                    | 980               |

#### Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 110       | 70-130           |
| 1,2-Dichloroethane-d4 | 94        | 70-130           |
| 4-Bromofluorobenzene  | 95        | 70-130           |

Client Sample ID: Lab Blank

Lab ID#: 2106174-04A

## EPA METHOD TO-15 GC/MS FULL SCAN

|              |          |                                    |
|--------------|----------|------------------------------------|
| File Name:   | a061106c | Date of Collection: NA             |
| Dil. Factor: | 1.00     | Date of Analysis: 6/11/21 12:40 PM |

| Compound                         | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12                         | 0.50                 | Not Detected     | 2.5                   | Not Detected      |
| Vinyl Chloride                   | 0.50                 | Not Detected     | 1.3                   | Not Detected      |
| Freon 11                         | 0.50                 | Not Detected     | 2.8                   | Not Detected      |
| Freon 113                        | 0.50                 | Not Detected     | 3.8                   | Not Detected      |
| 1,1-Dichloroethene               | 0.50                 | Not Detected     | 2.0                   | Not Detected      |
| 2-Propanol                       | 2.0                  | Not Detected     | 4.9                   | Not Detected      |
| Carbon Disulfide                 | 2.0                  | Not Detected     | 6.2                   | Not Detected      |
| Methylene Chloride               | 5.0                  | Not Detected     | 17                    | Not Detected      |
| Hexane                           | 0.50                 | Not Detected     | 1.8                   | Not Detected      |
| 1,1-Dichloroethane               | 0.50                 | Not Detected     | 2.0                   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 2.0                  | Not Detected     | 5.9                   | Not Detected      |
| Chloroform                       | 0.50                 | Not Detected     | 2.4                   | Not Detected      |
| 1,1,1-Trichloroethane            | 0.50                 | Not Detected     | 2.7                   | Not Detected      |
| Carbon Tetrachloride             | 0.50                 | Not Detected     | 3.1                   | Not Detected      |
| Benzene                          | 0.50                 | Not Detected     | 1.6                   | Not Detected      |
| 1,2-Dichloroethane               | 0.50                 | Not Detected     | 2.0                   | Not Detected      |
| Trichloroethene                  | 0.50                 | Not Detected     | 2.7                   | Not Detected      |
| 1,4-Dioxane                      | 2.0                  | Not Detected     | 7.2                   | Not Detected      |
| Toluene                          | 0.50                 | Not Detected     | 1.9                   | Not Detected      |
| 1,1,2-Trichloroethane            | 0.50                 | Not Detected     | 2.7                   | Not Detected      |
| Tetrachloroethene                | 0.50                 | Not Detected     | 3.4                   | Not Detected      |
| o-Xylene                         | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| TNMOC ref. to Heptane (MW=100)   | 10                   | Not Detected     | 41                    | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 110       | 70-130           |
| 1,2-Dichloroethane-d4 | 92        | 70-130           |
| 4-Bromofluorobenzene  | 97        | 70-130           |



Client Sample ID: CCV

Lab ID#: 2106174-05A

## EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                    |
|--------------|---------|------------------------------------|
| File Name:   | a061102 | Date of Collection: NA             |
| Dil. Factor: | 1.00    | Date of Analysis: 6/11/21 10:03 AM |

| Compound                         | %Recovery |
|----------------------------------|-----------|
| Freon 12                         | 93        |
| Vinyl Chloride                   | 107       |
| Freon 11                         | 82        |
| Freon 113                        | 86        |
| 1,1-Dichloroethene               | 91        |
| 2-Propanol                       | 102       |
| Carbon Disulfide                 | 92        |
| Methylene Chloride               | 104       |
| Hexane                           | 111       |
| 1,1-Dichloroethane               | 99        |
| 2-Butanone (Methyl Ethyl Ketone) | 98        |
| Chloroform                       | 100       |
| 1,1,1-Trichloroethane            | 96        |
| Carbon Tetrachloride             | 98        |
| Benzene                          | 104       |
| 1,2-Dichloroethane               | 90        |
| Trichloroethene                  | 103       |
| 1,4-Dioxane                      | 112       |
| Toluene                          | 112       |
| 1,1,2-Trichloroethane            | 107       |
| Tetrachloroethene                | 99        |
| o-Xylene                         | 119       |
| TNMOC ref. to Heptane (MW=100)   | 100       |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 109       | 70-130        |
| 1,2-Dichloroethane-d4 | 95        | 70-130        |
| 4-Bromofluorobenzene  | 100       | 70-130        |

Client Sample ID: LCS

Lab ID#: 2106174-06A

## EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                    |
|--------------|---------|------------------------------------|
| File Name:   | a061103 | Date of Collection: NA             |
| Dil. Factor: | 1.00    | Date of Analysis: 6/11/21 10:28 AM |

| Compound                         | %Recovery  | Method Limits |
|----------------------------------|------------|---------------|
| Freon 12                         | 92         | 70-130        |
| Vinyl Chloride                   | 108        | 70-130        |
| Freon 11                         | 83         | 70-130        |
| Freon 113                        | 89         | 70-130        |
| 1,1-Dichloroethene               | 92         | 70-130        |
| 2-Propanol                       | 109        | 70-130        |
| Carbon Disulfide                 | 92         | 70-130        |
| Methylene Chloride               | 100        | 70-130        |
| Hexane                           | 113        | 70-130        |
| 1,1-Dichloroethane               | 97         | 70-130        |
| 2-Butanone (Methyl Ethyl Ketone) | 101        | 70-130        |
| Chloroform                       | 98         | 70-130        |
| 1,1,1-Trichloroethane            | 97         | 70-130        |
| Carbon Tetrachloride             | 100        | 70-130        |
| Benzene                          | 104        | 70-130        |
| 1,2-Dichloroethane               | 89         | 70-130        |
| Trichloroethene                  | 104        | 70-130        |
| 1,4-Dioxane                      | 113        | 70-130        |
| Toluene                          | 110        | 70-130        |
| 1,1,2-Trichloroethane            | 107        | 70-130        |
| Tetrachloroethene                | 100        | 70-130        |
| o-Xylene                         | 123        | 70-130        |
| TNMOC ref. to Heptane (MW=100)   | Not Spiked |               |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 109       | 70-130        |
| 1,2-Dichloroethane-d4 | 93        | 70-130        |
| 4-Bromofluorobenzene  | 100       | 70-130        |

Client Sample ID: LCSD

Lab ID#: 2106174-06AA

## EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                    |
|--------------|---------|------------------------------------|
| File Name:   | a061104 | Date of Collection: NA             |
| Dil. Factor: | 1.00    | Date of Analysis: 6/11/21 10:53 AM |

| Compound                         | %Recovery  | Method Limits |
|----------------------------------|------------|---------------|
| Freon 12                         | 92         | 70-130        |
| Vinyl Chloride                   | 110        | 70-130        |
| Freon 11                         | 89         | 70-130        |
| Freon 113                        | 90         | 70-130        |
| 1,1-Dichloroethene               | 94         | 70-130        |
| 2-Propanol                       | 108        | 70-130        |
| Carbon Disulfide                 | 94         | 70-130        |
| Methylene Chloride               | 101        | 70-130        |
| Hexane                           | 114        | 70-130        |
| 1,1-Dichloroethane               | 98         | 70-130        |
| 2-Butanone (Methyl Ethyl Ketone) | 103        | 70-130        |
| Chloroform                       | 99         | 70-130        |
| 1,1,1-Trichloroethane            | 98         | 70-130        |
| Carbon Tetrachloride             | 101        | 70-130        |
| Benzene                          | 104        | 70-130        |
| 1,2-Dichloroethane               | 89         | 70-130        |
| Trichloroethene                  | 104        | 70-130        |
| 1,4-Dioxane                      | 113        | 70-130        |
| Toluene                          | 112        | 70-130        |
| 1,1,2-Trichloroethane            | 106        | 70-130        |
| Tetrachloroethene                | 99         | 70-130        |
| o-Xylene                         | 123        | 70-130        |
| TNMOC ref. to Heptane (MW=100)   | Not Spiked |               |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 108       | 70-130        |
| 1,2-Dichloroethane-d4 | 93        | 70-130        |
| 4-Bromofluorobenzene  | 96        | 70-130        |

7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1427  
TEL: (714) 895-5494 . FAX: (714) 894-7501

**AIR CHAIN OF CUSTODY RECORD**  
**DATE:** 06/04/21  
**PAGE:** 1 OF 1

2106174

|  |  |  |  |
|--|--|--|--|
| <b>LABORATORY CLIENT</b>   |  | <b>P.O. NO.:</b>   |  |
| de maximis   |  |  |  |
| <b>ADDRESS</b><br>1322 Scott St., Suite 104  |  | <b>CLIENT PROJECT NAME / NUMBER</b><br>Omega - OU1 SVE Monthly GAC Sampling  |  |
| CITY: San Diego  | STATE: CA  | ZIP: 92106   | <b>PROJECT ADDRESS</b><br>12520 Whittier Blvd. |
| TEL: (562) 756-8149  | E-MAIL: jdimello@demaximis.com   | CITY: Whittier   | STATE: CA                                      |
| TURNAROUND TIME:<br><input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input checked="" type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS | SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)<br><input checked="" type="checkbox"/> EDO | SAMPLE(S) (NAME / SIGNATURE)<br><i>Khalid Abu</i>  |  |
| SPECIAL INSTRUCTIONS:  |  | PROJECT CONTACT: Trent Henderson thenderson@jacobandheffer.com   |  |
| LAB USE ONLY<br><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>   |  | REQUESTED ANALYSES<br><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |  |

| Lab Use Only | SAMPLE ID             | FIELD ID / Point of Collection | Air Type                              |              | Sampling Equipment Info |                     |          | Start Sampling Information |                         |          | Stop Sampling Information |                         |   |
|--------------|-----------------------|--------------------------------|---------------------------------------|--------------|-------------------------|---------------------|----------|----------------------------|-------------------------|----------|---------------------------|-------------------------|---|
|              |                       |                                | (I) Indoor (SV) Soil Vap. (A) Ambient | Canister ID# | Canister Size 6L or 1L  | Flow Controller ID# | Date     | Time (24hr clock)          | Canister Pressure (Psi) | Date     | Time (24hr clock)         | Canister Pressure (Psi) |   |
| 1            | OC_SVE_EFF_GAC_060421 | SP-EFF-GAC                     | SV                                    | 3400 1244    | 1L                      | 22630               | 6/4/2021 | 0848                       | -29                     | 6/4/2021 | 0854                      | -5                      | X |
| 2            | OC_SVE_MID_GAC_060421 | SP-MID-GAC                     | SV                                    | 3400 1184    | 1L                      | 25101               | 6/4/2021 | 0849                       | -28                     | 6/4/2021 | 0854                      | -5                      | X |
| 3            | OC_SVE_INF_GAC_060421 | SP-INF-GAC                     | SV                                    | 3400 0735    | 1L                      | 21264               | 6/4/2021 | 0850                       | -26.5                   | 6/4/2021 | 0855                      | -1.5                    | X |
| 4            |                       |                                |                                       |              |                         |                     |          |                            |                         |          |                           |                         |   |
| 5            |                       |                                |                                       |              |                         |                     |          |                            |                         |          |                           |                         |   |
| 6            |                       |                                |                                       |              |                         |                     |          |                            |                         |          |                           |                         |   |
| 7            |                       |                                |                                       |              |                         |                     |          |                            |                         |          |                           |                         |   |
| 8            |                       |                                |                                       |              |                         |                     |          |                            |                         |          |                           |                         |   |
| 9            |                       |                                |                                       |              |                         |                     |          |                            |                         |          |                           |                         |   |
| 10           |                       |                                |                                       |              |                         |                     |          |                            |                         |          |                           |                         |   |
| 11           |                       |                                |                                       |              |                         |                     |          |                            |                         |          |                           |                         |   |
| 12           |                       |                                |                                       |              |                         |                     |          |                            |                         |          |                           |                         |   |
| 13           |                       |                                |                                       |              |                         |                     |          |                            |                         |          |                           |                         |   |
| 14           |                       |                                |                                       |              |                         |                     |          |                            |                         |          |                           |                         |   |
| 15           |                       |                                |                                       |              |                         |                     |          |                            |                         |          |                           |                         |   |

*Felix*  
Custody Seal Intact?  
Y N None Temp NA

|  |  |              |            |
|--|--|--------------|------------|
| Relinquished by: (Signature)<br><i>[Signature]</i> | Received by: (Signature)<br><i>[Signature]</i> | Date: 6-7-21 | Time: 1032 |
| Relinquished by: (Signature)                       | Received by: (Signature)                       | Date:        | Time:      |
| Relinquished by: (Signature)                       | Received by: (Signature)                       | Date:        | Time:      |

# **ATTACHMENT G**

## **Data Validation Repots**

## Second Quarter 2021

| SDG Number | Sample ID             | Collection Date | Number of Samples | Analysis Method | Validation Level | QC Reviewed  | Data Usability  |
|------------|-----------------------|-----------------|-------------------|-----------------|------------------|--|---|
| 2104386    | OC_SVE_EFF_GAC_041621 | 04/16/2021      | 3                 | TO15            | Stage 2B         | IC, CC, Holding Times, Sample Receipt Conditions, Surrogates, MB, LCS/LCSD | TNMOC results were not validated. No qualification of sample results was warranted. |
|            | OC_SVE_INF_GAC_041621 |                 |                   |                 |                  |  |   |
|            | OC_SVE_MID_GAC_041621 |                 |                   |                 |                  |  |   |
| 2105272    | OC_SVE_EFF_GAC_050721 | 05/07/2021      | 3                 | TO15            |                  |  | TNMOC results were not validated. No qualification of sample results was warranted. |
|            | OC_SVE_INF_GAC_050721 |                 |                   |                 |                  |  |   |
|            | OC_SVE_MID_GAC_050721 |                 |                   |                 |                  |  |   |
| 2106174    | OC_SVE_EFF_GAC_060421 | 06/04/2021      | 3                 | TO15            |                  |  | TNMOC results were not validated. No qualification of sample results was warranted. |
|            | OC_SVE_INF_GAC_060421 |                 |                   |                 |                  |  |   |
|            | OC_SVE_MID_GAC_060421 |                 |                   |                 |                  |  |   |